

## § 454.62

### § 454.62 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of rosin-based derivatives by a point source subject to the provisions of this paragraph after application of the best practicable control technology currently available:

[Metric units, kg/kkg of product; English units, lb/1,000 lb of product]

Effluent characteristic	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed—
BOD <sub>5</sub> .....	1.41	0.748
TSS .....	0.045	0.015
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range 6.0 to 9.0.

[41 FR 20511, May 18, 1976, as amended at 60 FR 33971, June 29, 1995]

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AUTHORITY: Secs. 301, 304, 306, 307, and 501, Pub. L. 92-500, 86 Stat. 816, Pub. L. 95-217, 91 Stat. 156, and Pub. L. 100-4 (33 U.S.C. 1311, 1314, 1316, 1317, and 1361).

SOURCE: 43 FR 17776, Apr. 25, 1978, unless otherwise noted.

### § 455.10 General definitions.

As used in this part:

(a)(1) *Pesticide* means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest.

(b) *Active ingredient* means an ingredient of a pesticide which is intended to prevent, destroy, repel, or mitigate any pest.

(c) *Pesticide chemicals* means the sum of all active ingredients manufactured at each facility covered by this part.

(d) *Pest* means: (1) Any insect, rodent, nematode, fungus, weed, or (2) any other form of terrestrial or aquatic plant or animal life or virus, bacteria, or other micro-organism (except virusus, bacteria, or other micro-organisms on or in living man or other living animals) which the Administrator declares to be a pest under section 25(c)(1) of Pub. L. 94-140, Federal Insecticide, Fungicide and Rodenticide Act.

(e) Except as provided in this regulation, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this part.

(f) *Priority Pollutants* means the toxic pollutants listed in 40 CFR part 423, appendix A.

(g) *Appropriate pollution control technology* means the wastewater treatment technology listed in Table 10 to this part 455 for a particular PAI(s) including an emulsion breaking step prior to the listed technology when emulsions are present in the wastewater to be treated.

(h) *Equivalent system* means a wastewater treatment system that is demonstrated in literature, treatability tests or self-monitoring data to remove a similar level of pesticide active ingredient (PAI) or priority pollutants as the applicable appropriate pollution

control technology listed in Table 10 to this part 455.

(i) *Formulation* of pesticide products means the process of mixing, blending or diluting one or more pesticide active ingredients (PAIs) with one or more active or inert ingredients, without an intended chemical reaction to obtain a manufacturing use product or an end use product.

(j) *Group 1 mixtures* means any product whose only pesticidal active ingredient(s) is: a common food/food constituent or non-toxic household item; or is a substance that is generally recognized as safe (GRAS) by the Food and Drug Administration (21 CFR 170.30, 182, 184, and 186) in accordance with good manufacturing practices, as defined by 21 CFR part 182; or is exempt from FIFRA under 40 CFR 152.25.

(k) *Group 2 mixtures* means those chemicals listed in Table 9 to this part 455.

(l) *Inorganic wastewater treatment chemicals* means inorganic chemicals that are commonly used in wastewater treatment systems to aid in the removal of pollutants through physical/chemical technologies such as chemical precipitation, flocculation, neutralization, chemical oxidation, hydrolysis and/or adsorption.

(m) *Interior wastewater sources* means wastewater that is generated from cleaning or rinsing the interior of pesticide formulating, packaging or repackaging equipment; or from rinsing the interior of raw material drums, shipping containers or bulk storage tanks; or cooling water that comes in direct contact with pesticide active ingredients (PAIs) during the formulating, packaging or repackaging process.

(n) *Microorganisms* means registered pesticide active ingredients that are biological control agents listed in 40 CFR 152.20(a)(3) including Eucaryotes (protozoa, algae, fungi), Procaryotes (bacteria), and Viruses.

(o) *Packaging* of pesticide products means enclosing or placing a formulated pesticide product into a marketable container.

(p) *PFPR/Manufacturer* means a pesticide formulating, packaging and repackaging facility that also performs pesticide manufacturing on-site and

commingles their PFPR process wastewaters and pesticide manufacturing process wastewaters.

(q) *Pool chemicals* means pesticide products that are intended to disinfect or sanitize, reducing or mitigating growth or development of microbiological organisms including bacteria, algae, fungi or viruses in the water of swimming pools, hot tubs, spas or other such areas, in the household and/or institutional environment, as provided in the directions for use on the product label.

(r) *Refilling establishment* means an establishment where the activity of repackaging pesticide product into refillable containers occurs.

(s) *Repackaging of pesticide products* means the transfer of a pesticide formulation (or PAI) from one container to another without a change in composition of the formulation or the labeling content, for sale or distribution.

(t) *Sanitizer products* means pesticide products that are intended to disinfect or sanitize, reducing or mitigating growth or development of microbiological organisms including bacteria, fungi or viruses on inanimate surfaces in the household, institutional, and/or commercial environment and whose labeled directions for use result in the product being discharged to Publicly Owned Treatment Works (POTWs). This definition shall also include sanitizer solutions as defined by 21 CFR 178.1010 and pool chemicals as defined in this section (455.10(q)). This definition does not include liquid chemical sterilants (including sporicidals) exempted by § 455.40(f) or otherwise, industrial preservatives, and water treatment microbiocides other than pool chemicals.

(u) *Stand-alone PFPR facility* means a PFPR facility where either: No pesticide manufacturing occurs; or where pesticide manufacturing process wastewaters are not commingled with PFPR process wastewaters. Such facilities may formulate, package or repack or manufacture other non-pesticide chemical products and be considered a “stand-alone” PFPR facility.

[43 FR 17776, Apr. 25, 1978, as amended at 50 FR 40701, Oct. 4, 1985; 51 FR 44911, Dec. 15, 1986; 58 FR 50689, Sept. 28, 1993; 61 FR 57548, Nov. 6, 1996]

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### Subpart A—Organic Pesticide Chemicals Manufacturing Subcategory

SOURCE: 43 FR 44846, Sept. 29, 1978, unless otherwise noted.

#### § 455.11 Compliance date for pretreatment standards for existing sources (PSES).

All discharges subject to pretreatment standards for existing sources (PSES) in subparts A and B of this part must comply with the standards no later than September 28, 1993.

[61 FR 57549, Nov. 6, 1996]

#### § 455.20 Applicability; description of the organic pesticide chemicals manufacturing subcategory.

(a) For the purpose of calculating and applying effluent limitations for COD, BOD<sub>5</sub>, and TSS, and applying pH limits under BPT (§ 455.22), BCT (§ 455.23), and NSPS (§ 455.25), the provisions of this subpart are applicable to discharges resulting from the manufacture of organic pesticide active ingredients and organotin pesticide active ingredients, excluding the following: Allethrin; Benzyl Benzoate; Bisethylxanthogen; Chlorophacinone; Coumafuryl; Dimethyl Phthalate; Diphacinone; Endothall Acid; EXD (Herbisan); Gibberellic Acid; Glyphosate; Naphthalene Acetic Acid; Propargite; 1,8 Naphthalic Anhydride; Quinmethionate; Rotenone; Sulfoxide; Triazine compounds (both symmetrical and asymmetrical); and Warfarin and similar anticoagulants. Provided, however, that the effluent limitations of this subpart for BOD<sub>5</sub> and TSS, but not COD, apply to manufacturers of Ametryn, Prometon, Prometryn, Terbutryn, Cyanazine, Atrazine, Propazine, Simazine, Terbutylazine, Hexazinone, and Glyphosate.

(b) For the purpose of calculating BPT effluent limitations for organic Pesticide chemicals, the provisions of this subpart are applicable to discharges resulting from the manufacture of the following organic active ingredients: Aldrin, BHC, Captan, Chlordane, DDD, DDE, DDT, Dichloran, Dieldrin, Endosulfan, Endrin, Heptachlor, Lindane, Methoxychlor, Mirex,

PCNB, Toxaphene, Trifluralin, Azinphos Methyl, Demeton-O, Demeton-S, Diazinon, Disulfoton, Malathion, Parathion Methyl, Parathion Ethyl, Aminocarb, Carbaryl, Methiocarb, Mexacarbate, Propoxur, Barban, Chlorpropham, Diuron, Fenuron, Fenuron-TCA, Linuron, Monuron, Monuron-TCA, Neubron, Propham, Swep, 2,4-D, Dicamba, Silvex, 2,4,5-T, Siduron, Perthane, and Dicofol.

(c) The intermediates used to manufacture the active ingredients and active ingredients used solely in experimental pesticides are excluded from coverage in this subpart. Insecticidal pathogenic organisms such as *Bacillus thuringiensis*, insect growth hormones, plant extracts such as pyrethrins; sex attractants and botanicals such as Rotenone are also excluded from BPT coverage in this subpart.

(d) A plant that manufactures a pesticide active ingredient listed in Table 1 of this part must comply with the BAT effluent limitations and new source performance and pretreatment standards for that pesticide active ingredient listed in table 2 (BAT and PSES) or Table 3 of this part (NSPS and PSNS). A plant that manufactures a pesticide active ingredient listed in Table 1 of this part must also comply with the BAT effluent limitations and new source performance and pretreatment standards for priority pollutants listed in Tables 4, 5 and 6 of this part. The limitations in Table 4 of this part (BAT and NSPS) are applicable to existing and new direct discharge point sources that use End-of-Pipe biological treatment. The limitations in Table 5 of this part (BAT and NSPS) are applicable to existing and new direct discharge point sources that do not use end-of-pipe biological treatment. The limitations in Table 6 of this part (PSES and PSNS) are applicable to existing and new sources that discharge to Publicly Owned Treatment Works.

(e) In the case of lead and total cyanide, the discharge quantity (mass) shall be determined by multiplying the concentrations listed in the applicable tables in this subpart times the flow from non-complexed lead-bearing waste streams for lead and times the flow

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from non-complexed cyanide-bearing waste streams for total cyanide. Discharges of cyanide in cyanide-bearing waste streams are not subject to the cyanide limitation and standards of this subpart if the permit writer or control authority determines that the cyanide limitations and standards are not achievable due to elevated levels of non-amenable cyanide (i.e., cyanide that is not oxidized by chlorine treatment) that result from the unavoidable complexing of cyanide at the process source of the cyanide-bearing waste stream and establishes an alternative total cyanide or amenable cyanide limitation that reflects the best available technology economically achievable. The determination must be based upon a review of relevant engineering, production, and sampling and analysis information, including measurements of both total and amenable cyanide in the waste stream. An analysis of the extent of complexing in the waste stream, based on the foregoing information, and its impact on cyanide treatability shall be set forth in writing and, for direct dischargers, be contained in the fact sheet required by 40 CFR 124.8.

[43 FR 44846, Sept. 29, 1978, as amended at 50 FR 40702, Oct. 4, 1985; 51 FR 44911, Dec. 15, 1986; 58 FR 50689, Sept. 28, 1993]

## § 455.21 Specialized definitions.

(a) *Organic active ingredients* means carbon-containing active ingredients used in pesticides, excluding metalloorganic active ingredients.

(b) *Total organic active ingredients* means the sum of all organic active ingredients covered by § 455.20(a) which are manufactured at a facility subject to this subpart.

(c) *Organic pesticide chemicals* means the sum of all organic active ingredients listed in § 455.20(b) which are manufactured at a facility subject to this subpart.

(d) *Process wastewater flow* means the sum of the average daily flows from the following wastewater streams: Process stream and product washes, equipment and floor washes, water used as solvent for raw materials, water used as reaction medium, spent acids, spent bases, contact cooling water, water of reac-

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tion, air pollution control blowdown, steam jet blowdown, vacuum pump water, pump seal water, safety equipment cleaning water, shipping container cleanout, safety shower water, contaminated storm water, and product/process laboratory quality control wastewater. Notwithstanding any other regulation, process wastewater flow for the purposes of this subpart does not include wastewaters from the production of intermediate chemicals.

(e) *Process wastewater pollutants* means those pollutants present in process wastewater flow.

[43 FR 44846, Sept. 29, 1978, as amended at 58 FR 50689, Sept. 28, 1993]

## § 455.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§ 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). The following limitations establish the quantity or quality of pollutants or pollutant properties controlled by this paragraph which may be discharged from the manufacture of organic active ingredient:

Effluent characteristics	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed—
COD .....	13.000	9.0000
BOD <sub>5</sub> .....	7.400	1.6000
TSS .....	6.100	1.8000
Organic pesticide chemicals	.010	.0018
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 6.0 to 9.0.

NOTE: For COD, BOD<sub>5</sub>, and TSS, metric units: Kilogram/1,000 kg of total organic active ingredients. English units: Pound/1,000 lb of total organic active ingredients. For organic pesticide chemicals—metric units: Kilogram/1,000 kg of organic pesticide chemicals. English units: Pound/1,000 lb of organic pesticide chemicals.

[43 FR 44846, Sept. 29, 1978, as amended at 60 FR 33971, June 29, 1995]

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### § 455.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology: The limitations for BOD, TSS and pH are the same as those specified in 40 CFR 455.22.

#### BCT EFFLUENT LIMITATIONS

Effluent Limitations

Pollutant or pollutant property	Maximum for any one day**	Average of daily values shall not exceed**
BOD5 .....	7.400	1.6000
TSS .....	6.100	1.8000
pH .....	*	*

\* Within the range 6.0 to 9.0

\*\* Metric units: Kilogram pollutant/1,000 kg of total organic active ingredients.

English units: Pound pollutant/1,000 lb of total organic active ingredients

[58 FR 50689, Sept. 28, 1993]

### § 455.24 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology as specified in 40 CFR 455.20(d). For the priority pollutants, such sources must achieve discharges not exceeding the quantity (mass) determined by multiplying the process wastewater flow subject to this subpart as defined in 40 CFR 455.21 (d) times the concentrations listed in table 4 or table 5 of this part, as appropriate, of this subpart.

[58 FR 50690, Sept. 28, 1993]

### § 455.25 New source performance standards (NSPS).

(a) Any new source subject to this subpart which discharges process wastewater pollutants must achieve the new source performance standards specified in 40 CFR 455.20(d), and subject to 455.20(a), must meet the following standards for BOD5, TSS, COD and pH:

#### NEW SOURCE PERFORMANCE STANDARDS

Standards

Pollutant or pollutant property	Maximum for any one day**	Average of daily values shall not exceed**
COD .....	9.360	6.480
BOD5 .....	5.328	1.1520
TSS .....	4.392	1.2960
pH .....	*	*

\* Within the range 6.0 to 9.0

\*\* Metric units: Kilogram pollutant /1,000 kg of total organic active ingredients.

English units: Pound pollutant/1,000 lb of total organic active ingredients

(b) For the priority pollutants, such sources must achieve discharges not exceeding the quantity (mass) determined by multiplying the process wastewater flow subject to this subpart as defined in 40 CFR 455.21(d) times the concentrations listed in table 4 or table 5 of this part, as appropriate, of this subpart.

[58 FR 50690, Sept. 28, 1993]

### § 455.26 Pretreatment standards for existing sources (PSES).

Except as provided in 40 CFR 403.7, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for existing sources (PSES) as specified in 40 CFR 455.20(d). For the priority pollutants, such sources must achieve discharges not exceeding the quantity (mass) determined by multiplying the process wastewater flow subject to this subpart as defined in 40 CFR 455.21(d) times the concentrations listed in Table 6 of this part. If mass limitations have not been developed as required, the source shall achieve discharges not

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exceeding the concentration limitations listed in Table 6 of this part.

[58 FR 50690, Sept. 28, 1993]

### **§ 455.27 Pretreatment standards for new sources (PSNS).**

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the pretreatment standards for new sources (PSNS) as specified in 40 CFR 455.20(d). For the priority pollutants, the source must achieve discharges not exceeding the quantity (mass) determined by multiplying the process wastewater flow subject to this subpart as defined in 40 CFR 455.21(d) times the concentrations listed in table 6 of this part. If mass limitations have not been developed as required, the source shall achieve discharges not exceeding the concentration limitations listed in table 6 of this part.

[58 FR 50690, Sept. 28, 1993]

## **Subpart B—Metallo-Organic Pesticide Chemicals Manufacturing Subcategory**

### **§ 455.30 Applicability; description of the metallo-organic pesticide chemicals manufacturing subcategory.**

The provisions of this subpart are applicable to discharges resulting from the manufacture of metallo-organic active ingredients containing mercury, cadmium, arsenic, or copper. The manufacture of intermediates used to manufacture the active ingredients are excluded from coverage by this subpart.

### **§ 455.31 Specialized definitions.**

(a) “Metallo-organic active ingredients” means carbon containing active ingredients containing one or more metallic atoms in the structure.

### **§ 455.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.**

Except as provided in §§125.30 through 125.32, any existing point source subject to this subpart, shall

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achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT). The following limitations establish the quantity or quality of pollutants or pollutant properties controlled by this paragraph which may be discharged from the manufacture of metallo-organic active ingredient: There shall be no discharge of process waste water pollutants to navigable waters.

[60 FR 33971, June 29, 1995]

### **§ 455.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). [Reserved]**

### **§ 455.34 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT). [Reserved]**

### **§ 455.35 New source performance standards (NSPS). [Reserved]**

### **§ 455.36 Pretreatment standards for existing sources (PSES). [Reserved]**

### **§ 455.37 Pretreatment standards for new sources (PSNS). [Reserved]**

## **Subpart C—Pesticide Chemicals Formulating and Packaging Subcategory**

### **§ 455.40 Applicability; description of the pesticide formulating, packaging and repackaging subcategory.**

(a) The provisions of this subpart are applicable to discharges resulting from all pesticide formulating, packaging and repackaging operations except as provided in paragraphs (b), (c), (d), (e) and (f) of this section.

(b) The provisions of this subpart do not apply to repackaging of agricultural pesticides performed at refilling establishments, as described in § 455.60.

(c) The provisions of this subpart do not apply to wastewater discharges from: the operation of employee showers and laundry facilities; the testing of fire protection equipment; the testing and emergency operation of safety

showers and eye washes; storm water; Department of Transportation (DOT) aerosol leak test bath water from non-continuous overflow baths (batch baths) where no cans have burst from the time of the last water change-out; and on-site laboratories from cleaning analytical equipment and glassware and rinsing the retain sample container (except for the initial rinse of the retain sample container which is considered a process wastewater source for this subpart).

(d) The provisions of this subpart do not apply to wastewater discharges from the formulation, packaging and/or repackaging of sanitizer products (including pool chemicals); microorganisms; inorganic wastewater treatment chemicals; group 1 mixtures and group 2 mixtures, as defined under § 455.10.

(e) The provisions of this subpart do not apply to wastewater discharges from the development of new formulations of pesticide products and the associated efficacy and field testing at on-site or stand-alone research and development laboratories where the resulting pesticide product is not produced for sale.

(f) The provisions of this subpart do not apply to wastewater discharges from the formulation, packaging and/or repackaging of liquid chemical sterilant products (including any sterilant or subordinate disinfectant claims on such products) for use on a critical or semi-critical device, as defined in Section 201 of the Federal Food, Drug and Cosmetic Act and in Section 2(u) of the Federal Insecticide, Fungicide and Rodenticide Act.

[61 FR 57549, Nov. 6, 1996]

#### § 455.41 Special definitions.

(a) *Initial Certification Statement* for this subpart means a written submission to the appropriate permitting authority, *e.g.*, the local Control Authority (the POTW) or NPDES permit writer which must be signed by the responsible corporate officer as defined in 40 CFR 403.12(l) or 40 CFR 122.22 and which:

(1) Lists and describes those product families, process lines and/or process units for which the PFPR facility is implementing the Pollution Prevention Alternative ("P2 Alternative");

(2) Describes the PFPR facility specific practices for each product family/process line/process unit which are to be practiced as part of the P2 Alternative;

(3) Describes any justification allowing modification to the practices listed in Table 8 to this part 455; and

(4) Lists the treatment system being used to obtain a P2 allowable discharge (as defined in 455.41).

(b) *Periodic Certification Statement* for this subpart means a written submission to the appropriate permitting authority, *e.g.*, the local Control Authority (the POTW) or NPDES permit writer, which states that the P2 Alternative is being implemented in the manner set forth in the control mechanism (for indirect dischargers) or NPDES permit (for direct dischargers) or that a justification allowing modification of the practices listed in Table 8 to this part 455 has been implemented resulting in a change in the pollution prevention practices conducted at the facility. The Periodic Certification Statement must be signed by the responsible corporate officer as defined in 40 CFR 403.12(l) or 40 CFR 122.22.

(c) *On-site Compliance Paperwork* for this subpart means data or information maintained in the offices of the PFPR facility which supports the initial and periodic certification statements as follows:

(1) Lists and describes those product families, process lines and/or process units for which the facility is implementing the P2 Alternative;

(2) Describes the facility specific practices for each product family/process line/process unit which are to be practiced as part of the P2 Alternative;

(3) Describes any justification allowing modification to the practices listed in Table 8 to this part 455;

(4) Includes a written discussion demonstrating that the treatment system being used contains the appropriate pollution control technologies (or equivalent systems/pesticide manufacturing systems) for removing the PAIs which may be found in the wastewater;

(5) Establishes a method for demonstrating to the permitting/control authority that the treatment system is well operated and maintained; and



(6) Includes a discussion of the rationale for choosing the method of demonstration.

(d) For Indirect Dischargers:

*Pollution prevention (P2) allowable discharge (excluding interior wastewater sources, leak and spill clean-up water, and floor wash)* for this subpart means the quantity of/concentrations of pollutants in PFPR process wastewaters that remain after a facility has demonstrated that it is using the specified practices of the Pollution Prevention Alternative as listed in Table 8 to this part 455.

*Pollution prevention (P2) allowable discharge for interior wastewater sources, leak and spill cleanup water, and floor wash* for this subpart means the quantity of/concentrations of pollutants in PFPR process wastewaters that remain after a facility has demonstrated that it is using the specified practices of the Pollution Prevention Alternative as listed in Table 8 to this part 455 and that have been pretreated using appropriate pollution control technologies, as defined in § 455.10(g), or a pesticide manufacturer's treatment system, or an equivalent system, used individually, or in any combination to achieve a sufficient level of pollutant reduction. Pretreatment requirements may be modified or waived by the Control Authority (POTW) to the extent that removal credits have been granted by the POTW in accordance with 40 CFR 403.7, provided the granting of such credits does not result in pass through or interference as defined in 40 CFR 403.3 and complies with the provisions of 40 CFR 403.5. The facility must demonstrate that the appropriate pollution control technology is properly maintained and operated.

(e) For Direct Dischargers:

*Pollution prevention (P2) allowable discharge* for this subpart means the quantity of/concentrations of pollutants in PFPR process wastewaters that remain after a facility has demonstrated that it is using the specified practices of the Pollution Prevention Alternative as listed in Table 8 to this part 455 and that have been treated using appropriate pollution control technologies, as defined in § 455.10(g), or a pesticide manufacturer's treatment system, or an equivalent system, used individ-

ually, or in any combination to achieve a sufficient level of pollutant reduction. The facility must demonstrate that the appropriate pollution control technology is properly maintained and operated.

(f) *Process wastewater*, for this subpart, means all wastewater associated with pesticide formulating, packaging and repackaging except for sanitary water, non-contact cooling water and those wastewaters excluded from the applicability of the rule in § 455.40.

[61 FR 57549, Nov. 6, 1996]

**§ 455.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available, (BPT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

(a) Except as provided in paragraph (b) of this section, the following limitations establish the quantity or quality of pollutants or pollutant properties controlled by this paragraph which may be discharged from the formulation, packaging or repackaging of pesticides: There shall be no discharge of process wastewater pollutants to navigable waters.

NOTE: For existing PFPR/Manufacturer facilities, as defined in § 455.10(p), which are also subject to the provisions of § 455.22 or § 455.32, "zero discharge" means that permitting authorities shall provide no additional discharge allowance for those pesticide active ingredients (PAIs) in the pesticide formulating, packaging and repackaging wastewaters when those PAIs are also manufactured at the same facility.

(b) Any existing facility subject to paragraph (a) of this section may have a pollution prevention allowable discharge, as defined in § 455.41(e), of wastewater pollutants to navigable waters if the discharger agrees to NPDES permit conditions as follows:

(1) The discharger will meet the requirements of the Pollution Prevention Alternative listed in Table 8 to this part 455 (or received a modification by

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Best Professional Judgement for modifications not listed in Table 8 of this Part 455);

(2) The discharger will notify its NPDES permit writer at the time of renewal or modification of its permit, of its intent to utilize the Pollution Prevention Alternative by submitting to the NPDES permit writer an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its NPDES permitting authority a periodic certification statements as described in § 455.41(b) once each year of operation; and

(4) The discharger will maintain at the office of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

[61 FR 57550, Nov. 6, 1996]

### **§ 455.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology.

(a) Except as provided in paragraph (b) of this section, the BCT limitations are established as follows: There shall be no discharge of process wastewater pollutants to navigable waters.

NOTE: For existing PFPR/Manufacturer facilities, as defined in § 455.10(p), which are also subject to the provisions of §§ 455.23, *zero discharge* means that permitting authorities shall provide no discharge additional discharge allowance for those pesticide active ingredients (PAIs) in the pesticide formulating, packaging and repackaging wastewaters when those PAIs are also manufactured at the same facility.

(b) Any existing facility subject to paragraph (a) of this section may have a pollution prevention allowable discharge, as defined in § 455.41(e), of wastewater pollutants to navigable waters if the discharger agrees to NPDES permit conditions as follows:

(1) The discharger will meet the requirements of the Pollution Prevention

Alternative listed in Table 8 to this Part 455 (or received a modification by Best Professional Judgement for modifications not listed in Table 8 of this Part 455);

(2) The discharger will notify its NPDES permit writer at the time of renewal or modification of its permit, of its intent to utilize the Pollution Prevention Alternative by submitting to the NPDES permit writer an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its NPDES permitting authority a periodic certification statement as described in § 455.41(b) once each year of operation; and

(4) The discharger will maintain at the office of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

[61 FR 57550, Nov. 6, 1996]

### **§ 455.44 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology (BAT).

(a) Except as provided in paragraph (b) of this section, the BAT limitations are established as follows: There shall be no discharge of process wastewater pollutants to navigable waters.

NOTE: For existing PFPR/Manufacturer facilities, as defined in § 455.10(p), which are also subject to the provisions of §§ 455.24, *zero discharge* means that permitting authorities shall provide no additional discharge allowance for those pesticide active ingredients (PAIs) in the pesticide formulating, packaging and repackaging wastewaters when those PAIs are also manufactured at the same facility.

(b) Any existing facility subject to paragraph (a) of this section may have a pollution prevention allowable discharge, as defined in § 455.41(e), of wastewater pollutants to navigable waters if the discharger agrees to NPDES permit conditions as follows:

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(1) The discharger will meet the requirements of the Pollution Prevention Alternative listed in Table 8 to this Part 455 (or received a modification by Best Professional Judgement for modifications not listed on Table 8 of this Part 455);

(2) The discharger will notify its NPDES permitting authority at the time of renewal or modification of its permit, of its intent to utilize the Pollution Prevention Alternative by submitting to the NPDES permit writer an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its NPDES permit writer a periodic certification statement as described in § 455.41(b) once each year of operation; and

(4) The discharger will maintain at the office of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

[61 FR 57551, Nov. 6, 1996]

#### § 455.45 New source performance standards (NSPS).

(a) Any new source, except as provided in paragraph (b) of this section, subject to this subpart which discharges process wastewater must meet the following standards: There shall be no discharge of process wastewater pollutants to navigable waters.

NOTE: For new PFPR/Manufacturer facilities, as defined in § 455.10(p), which are also subject to the provisions of §§ 455.25, *zero discharge* means that permitting authorities shall provide no additional discharge allowance for those pesticide active ingredients (PAIs) in the pesticide formulating, packaging and repackaging wastewaters when those PAIs are also manufactured at the same facility.

(b) Any new source subject to paragraph (a) of this section may have a pollution prevention allowable discharge, as defined in § 455.41(e), of wastewater pollutants to navigable waters if the discharger agrees to NPDES permit conditions as follows:

(1) The discharger will meet the requirements of the Pollution Prevention Alternative listed in Table 8 to this Part 455 (or received a modification by Best Professional Judgement for modifications not listed in Table 8 of this Part 455);

(2) The discharger will notify its NPDES permit writer at the time of submitting its application for a permit, of its intent to utilize the Pollution Prevention Alternative by submitting to the NPDES permit writer an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its NPDES permitting authority a periodic certification statement as described in § 455.41(b) once each year of operation; and

(4) The discharger will maintain at the office of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

[61 FR 57551, Nov. 6, 1996]

#### § 455.46 Pretreatment standards for existing sources (PSES).

(a) Except as provided in 40 CFR 403.7 and 403.13 or in paragraph (b) of this section, no later than November 6, 1999, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve PSES as follows: There shall be no discharge of process wastewater pollutants.

(b) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to paragraph (a) of this section which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and may have a pollution prevention allowable discharge of wastewater pollutants, as defined in § 455.41(d), if the discharger agrees to control mechanism or pretreatment agreement conditions as follows:

(1) The discharger will meet the requirements of the Pollution Prevention Alternative listed in Table 8 to this Part 455 (or received a modification by Best Engineering Judgement for modifications not listed in Table 8 to this Part 455);

(2) The discharger will notify its local Control Authority at the time of renewing or modifying its individual control mechanism or pretreatment agreement of its intent to utilize the Pollution Prevention Alternative by

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submitting to the local Control Authority an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its local Control Authority a periodic certification statement as described in § 455.41(b) during the months of June and December of each year of operation; and

(4) The discharger will maintain at the offices of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

(c) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to § 455.46(b) which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and may submit a request to its Control Authority to waive pretreatment of: floor wash; and/or a non-reusable final rinse of a triple rinse, if the concentrations of pesticide active ingredients and priority pollutants in those wastewater sources have been demonstrated to be too low to be effectively pretreated at the facility. The Control Authority may waive pretreatment for these two wastewaters only if the existing source makes the demonstrations and is in compliance with 40 CFR 403.5.

[61 FR 57551, Nov. 6, 1996]

### **§ 455.47 Pretreatment standards for new sources (PSNS).**

(a) Except as provided in 40 CFR 403.7 and 403.13 or in paragraph (b) of this section, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve PSNS as follows: There shall be no discharge of process wastewater pollutants.

(b) Except as provided in 40 CFR 403.7 and 403.13, any new source subject to paragraph (a) of this section which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and may have a pollution prevention allowable discharge of wastewater pollutants, as defined in § 455.41(d), if the discharger agrees to control mechanism or pretreatment agreement conditions as follows:

(1) The discharger will meet the requirements of the Pollution Prevention Alternative listed in Table 8 to this Part 455 (or received a modification by Best Engineering Judgement for modifications not listed in Table 8 to this Part 455);

(2) The discharger will notify its local Control Authority at the time of submitting its application for an individual control mechanism or pretreatment agreement of its intent to utilize the Pollution Prevention Alternative by submitting to the local Control Authority an initial certification statement as described in § 455.41(a);

(3) The discharger will submit to its local Control Authority a periodic certification statement as described in § 455.41(b) during the months of June and December of each year of operation; and

(4) The discharger will maintain at the offices of the facility and make available for inspection the on-site compliance paperwork as described in § 455.41(c).

(c) Except as provided in 40 CFR 403.7 and 403.13, any new source subject to paragraph (b) of this section which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and may submit a request to its Control Authority to waive pretreatment of: floor wash; and/or a non-reusable final rinse of a triple rinse, if the concentrations of pesticide active ingredients and priority pollutants in those wastewater sources have been demonstrated to be too low to be effectively pretreated at the facility. The Control Authority may waive pretreatment for these two wastewaters only if the new source makes the demonstrations and is in compliance with 40 CFR 403.5.

[61 FR 57552, Nov. 6, 1996]

## **Subpart D—Test Methods for Pesticide Pollutants**

### **§ 455.50 Identification of test procedures.**

The pesticide active ingredients to which this regulation applies and for which effluent limitations guidelines and standards are specified in this part

are named, together with the Chemical Abstracts Service (CAS) number (provided to assist in identifying the pesticide active ingredient only) and analytical method(s) designation(s) in table 7 of this part. Except as provided in 40 CFR 136.5, the discharge parameter values required under the Clean Water Act must be determined by one of the analytical methods cited and described in table 7 of this part. Pesticide manufacturers may not use the analytical method cited in table 1B, table 1C, or table 1D of 40 CFR part 136 to make these determinations (except where the method cited in those tables is identical to the method specified in table 7 of this part). The full texts of the analytical methods cited in table 7 of this part are contained in the "Methods For The Determination of Nonconventional Pesticides In Municipal and Industrial Wastewater, Volume I," EPA 821-R-93-010A (August 1993 Revision I) and "Volume II", EPA 821-R-93-010B (August 1993) (the "Compendium"). Each pesticide chemical manufacturer that is required to determine discharge parameter values under this part using one of the analytical methods cited in table 7 of this part must request in writing a copy of the Compendium from the permit authority or local control authority (as applicable) prior to determining such discharge parameter values, unless the manufacturer already has a copy.

[58 FR 50690, Sept. 28, 1993]

### Subpart E—Repackaging of Agricultural Pesticides Performed at Refilling Establishments

SOURCE: 61 FR 57552, Nov. 6, 1996, unless otherwise noted.

#### § 455.60 Applicability; description of repackaging of agricultural pesticides performed by refilling establishments subcategory.

(a) The provisions of this subpart are applicable to discharges resulting from all repackaging of agricultural pesticides performed by refilling establishments, as defined in § 455.10; whose primary business is wholesale or retail sales; and where no pesticide manufacturing, formulating or packaging oc-

curs, except as provided in paragraphs (b), (c) and (d) of this section.

(b) The provisions of this subpart do not apply to wastewater discharges from custom application or custom blending, as defined in 40 CFR 167.3.

(c) The provisions of this subpart do not apply to wastewater discharges from: the operation of employee showers and laundry facilities; the testing of fire protection equipment; the testing and emergency operation of safety showers and eye washes; or storm water.

(d) The provisions of this subpart do not apply to wastewater discharges from the repackaging of microorganisms or Group 1 Mixtures, as defined under § 455.10, or non-agricultural pesticide products.

#### § 455.61 Special definitions.

*Process wastewater*, for this subpart, means all wastewater except for sanitary water and those wastewaters excluded from the applicability of the rule in § 455.60.

#### § 455.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable pollutant control technology (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable pollutant control technology: There shall be no discharge of process wastewater pollutants.

#### § 455.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollution control technology: There shall be no discharge of process wastewater pollutants.

**§ 455.64 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable: There shall be no discharge of process wastewater pollutants.

**§ 455.65 New source performance standards (NSPS).**

Any new source subject to this subpart which discharges process wastewater pollutants must meet the following standards: There shall be no discharge of process wastewater pollutants.

**§ 455.66 Pretreatment standards for existing sources (PSES).**

Except as provided in 40 CFR 403.7 and 403.13, no later than November 6, 1999 subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for existing sources as follows: There shall be no discharge of process wastewater pollutants.

**§ 455.67 Pretreatment standards for new sources (PSNS).**

Except as provided in 40 CFR 403.7 and 403.13, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for existing sources as follows: There shall be no discharge of process wastewater pollutants.

TABLE 1 TO PART 455—LIST OF ORGANIC PESTICIDE ACTIVE INGREDIENTS

EPA census code	Pesticide code	Pesticide name	CAS No.
1 .....	10501	Dicofol [1,1-Bis(chlorophenyl)-2,2,2-trichloroethanol] .....	00115-32-2
2 .....	51501	Maleic Hydrazide .....	00123-33-1
3 .....	42002	EDB [1,2-Ethylene dibromide] .....	00106-93-4
4 .....	82901	Vancide TH [1,3,5-Triethylhexahydro-s-triazine] .....	07779-27-3
5 .....	29001	Dichloropropene .....	00542-75-6
7 .....	17901	Dowicil 75 [1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantanechloride].	04080-31-3
8 .....	109901	Triadimefon .....	43121-43-3
9 .....	44901	Hexachlorophene (nabac) .....	00070-30-4
10 .....	55004	Tetrachlorophene .....	01940-43-8
11 .....	55001	Dichlorophene .....	00097-23-4
12 .....	84001	Dichlorvos .....	00062-73-7
13 .....	102401	Landrin-2 [2,3,5-trimethylphenylmethylcarbamate] .....	02686-99-9
14 .....	82601	Fenac [2,3,6-Trichlorophenylacetic acid] .....	00085-34-7
14 .....	( <sup>1</sup> )	Fenac Salts and Esters .....	( <sup>1</sup> )
15 .....	82001	2,4,5-T [2,4,5-Trichlorophenoxyacetic acid] .....	00093-76-5
15 .....	( <sup>1</sup> )	2,4,5-T Salts and Esters .....	( <sup>1</sup> )
16 .....	30001	2,4-D [2,4-Dichlorophenoxyacetic acid] .....	00094-75-7
16 .....	( <sup>1</sup> )	2,4-D Salts and Esters .....	( <sup>1</sup> )
17 .....	30801	2,4-DB [2,4-Dichlorophenoxybutyric acid] .....	00094-82-6
17 .....	( <sup>1</sup> )	2,4-DB Salts and Esters .....	( <sup>1</sup> )
18 .....	80811	Anilazine [2,4-Dichloro-6-(o-chloroanilino)-s-triazine] .....	00101-05-3
19 .....	36001	Dinocap .....	39300-45-3
20 .....	31301	Dichloran (2,6-dichloro-4-nitroaniline) .....	00099-30-9
21 .....	8707	Busan 90 [2-Bromo-4-hydroxyacetophenone] .....	02491-38-5
22 .....	15801	Mevinphos .....	07786-34-7
23 .....	39001	Sulfallate [2-chloroallyldiethyldithiocarbamate] .....	00095-06-7
24 .....	84101	Chlorfenvinphos .....	00470-90-6
25 .....	10010	Cyanazine .....	21725-46-2
26 .....	19101	Propachlor .....	01918-16-7
27 .....	30501	MCPA [2-Methyl-4-chlorophenoxyacetic acid] .....	00094-74-6
27 .....	( <sup>1</sup> )	MCPA Salts and Esters .....	( <sup>1</sup> )
28 .....	99901	Octhilinone .....	26530-20-1
29 .....	67703	Pindone .....	00083-26-1
30 .....	31401	Dichlorprop [2-(2,4-Dichlorophenoxy) propionic acid] .....	00120-36-5
30 .....	( <sup>1</sup> )	Dichlorprop Salts and Esters .....	( <sup>1</sup> )
31 .....	31501	MCPP [2-(2-Methyl-4-chlorophenoxy)propionic acid] .....	00093-65-2
31 .....	( <sup>1</sup> )	MCPP Salts and Esters .....	( <sup>1</sup> )
32 .....	60101	Thiabendazole .....	00148-79-8

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TABLE 1 TO PART 455—LIST OF ORGANIC PESTICIDE ACTIVE INGREDIENTS—Continued

EPA census code	Pesticide code	Pesticide name	CAS No.
33 .....	80815	Belclene 310 [2-(methylthio)-4-(ethylamino)-6-(1,2-dimethylamino)-s-triazine].	22936–75–0
34 .....	21201	Cloprop [2-(m-Chlorophenoxy)propionic acid] .....	00101–10–0
34 .....	( <sup>1</sup> )	Cloprop Salts and Esters .....	( <sup>1</sup> )
35 .....	35603	TCMTB [2-(Thiocyanomethylthio)benzothiazole] .....	21564–17–0
36 .....	99001	HAE [2-((Hydroxymethyl)amino) ethanol] .....	34375–28–5
37 .....	6770	Chlorophacinone .....	03691–35–8
38 .....	102401	Landrin-1 [3,4,5-trimethylphenylmethylcarbamate] .....	02686–99–9
39 .....	101701	Pronamide .....	23950–58–5
40 .....	100501	Methiocarb .....	02032–65–7
41 .....	28201	Propanil .....	00709–98–8
42 .....	107801	3-Iodo-2-propynyl butylcarbamate .....	55406–53–6
43 .....	86001	3-(a-Acetonylfurfuryl)-4-hydroxycoumarin [Coumafuryl] .....	00117–52–2
43 .....	( <sup>1</sup> )	Coumafuryl Salts and Esters .....	( <sup>1</sup> )
44 .....	37507	DNOC (4,6-dinitro-o-cresol) .....	00534–52–1
45 .....	101101	Metribuzin .....	21087–64–9
46 .....	19401	CPA (4-chlorophenoxyacetic acid) .....	00122–88–3
46 .....	( <sup>1</sup> )	CPA Salts and Esters .....	( <sup>1</sup> )
47 .....	19201	MCPB [4-(2-Methyl-4-chlorophenoxy)butyric acid] .....	00094–81–5
47 .....	( <sup>1</sup> )	MCPB Salts and Esters .....	( <sup>1</sup> )
48 .....	44401	Aminocarb [4-(dimethylamino)-m-tolylmethylcarbamate] .....	02032–59–9
49 .....	84701	Etridiazole .....	02593–15–9
50 .....	55501	Ethoxyquin .....	00091–53–2
51 .....	59804	Quinolol sulfate (8-Quinolol sulfate) .....	00134–31–6
52 .....	103301	Acephate .....	30560–19–1
53 .....	114401	Acifluorfen .....	50594–66–6
53 .....	114402	Acifluorfen Salts and Esters .....	62476–59–9
54 .....	90501	Alachlor .....	15972–60–8
55 .....	98301	Aldicarb .....	00116–06–3
56 .....	69105	Hyamine 3500 [Alkyl* dimethyl benzyl ammonium chloride* (50% C14, 40% C12, 10% C16)].	68424–85–1
57 .....	4001	Allethrin (all isomers and allethrin coil) .....	00584–79–2
58 .....	80801	Ametryn .....	00834–12–8
59 .....	106201	Amitraz .....	33089–61–1
60 .....	80803	Atrazine .....	01912–24–9
61 .....	105201	Bendiocarb .....	22781–23–3
62 .....	99101	Benomyl and Carbendazim .....	17804–35–2
63 .....	8901	Benzene Hexachloride .....	00608–73–1
64 .....	9501	BenzyI benzoate .....	00120–51–4
65 .....	10101	Lethane 384 [Beta-Thiocyanoethyl esters of mixed fatty acids containing from 10–18 carbons].	00301–11–1
66 .....	104301	Bifenox .....	42576–02–3
68 .....	12301	Bromacil .....	00314–40–9
68 .....	12302	Bromacil, lithium .....	53404–19–6
69 .....	35301	Bromoxynil .....	01689–84–5
69 .....	35302	Bromoxynil octanoate .....	01689–99–2
70 .....	112301	Butachlor .....	23184–66–9
70 .....	101401	Giv-gard [β-Bromo-β-nitrostyrene] .....	07166–19–0
73 .....	81701	Captafol .....	02425–06–1
74 .....	81301	Captan .....	00133–06–2
75 .....	56801	Carbaryl [Sevin] .....	00063–25–2
76 .....	90601	Carbofuran .....	01563–66–2
77 .....	90602	Carbosulfan .....	55285–14–8
78 .....	29901	Chloramben .....	00133–90–4
78 .....	( <sup>1</sup> )	Chloramben Salts and Esters .....	( <sup>1</sup> )
79 .....	58201	Chlordane .....	00057–74–9
80 .....	27301	Chloroneb .....	02675–77–6
81 .....	81501	Chloropicrin .....	00076–06–2
82 .....	81901	Chlorothalonil .....	01897–45–6
83 .....	25501	Chloroxuron .....	01982–47–4
84 .....	83701	Stirofos .....	00961–11–5
85 .....	59102	Chlorpyrifos methyl .....	05598–13–0
86 .....	59101	Chlorpyrifos .....	02921–88–2
87 .....	14504	Mancozeb .....	08018–01–7
90 .....	109301	Fenvalerate .....	51630–58–1
91 .....	43401	Cycloheximide .....	00066–81–9
92 .....	28901	Dalapon (2,2-dichloropropionic acid) .....	00075–99–0
92 .....	( <sup>1</sup> )	Dalapon Salts and Esters .....	( <sup>1</sup> )
93 .....	27501	Dienochlor .....	02227–17–0
94 .....	57601	Demeton [O,O-Diethyl O-(and S-) (2-ethylthio)ethyl] phosphorothioate].	08065–48–3

TABLE 1 TO PART 455—LIST OF ORGANIC PESTICIDE ACTIVE INGREDIENTS—Continued

EPA census code	Pesticide code	Pesticide name	CAS No.
95 .....	104801	Desmedipham .....	13684-56-5
96 .....	14502	Diammonium ethylenebisdithiocarbamate .....	03566-10-7
97 .....	11301	DBCP [Dibromo-3-chloropropane] .....	00096-12-8
98 .....	29801	Dicamba [3,6-Dichloro-o-anisic acid] .....	01918-00-9
98 .....	( <sup>1</sup> )	Dicamba Salts and Esters .....	( <sup>1</sup> )
99 .....	29601	Dichlone (Phygon) .....	00117-80-6
100 .....	103401	Thiophanate ethyl .....	23564-06-9
101 .....	32101	Perthane [Diethyl diphenyl dichloroethane and related compounds].	00072-56-0
102 .....	86501	EXD [Diethyl dithiobis (thionoformate)] .....	00502-55-6
103 .....	57801	Diazinon .....	00333-41-5
104 .....	108201	Diflubenzuron .....	35367-38-5
105 .....	69122	Benzethonium chloride .....	00121-54-0
106 .....	35001	Dimethoate .....	00060-51-5
107 .....	53501	Parathion methyl .....	00298-00-0
108 .....	35201	Dicrotophos .....	00141-66-2
109 .....	58801	Crotoxyphos .....	07700-17-6
110 .....	78701	DCPA [Dimethyl 2,3,5,6-tetrachloroterephthalate] .....	01861-32-1
111 .....	57901	Trichlorofon .....	00052-68-6
112 .....	37505	Dinoseb .....	00088-85-7
113 .....	37801	Dioxathion .....	00078-34-2
114 .....	67701	Diphacinone .....	00082-66-6
115 .....	36601	Diphenamid .....	00957-51-7
116 .....	38501	Diphenylamine .....	00122-39-4
116 .....	47201	MGK 326 [Dipropyl isocinchomeronate] .....	00113-48-4
118 .....	63301	Nabonate [Disodium cyanodithioimidocarbonate] .....	00138-93-2
119 .....	35505	Diuron .....	00330-54-1
120 .....	44303	Metasol DGH [Dodecylguanidine hydrochloride] .....	13590-97-1
121 .....	44301	Dodine (dodecylguanidine acetate) .....	02439-10-3
122 .....	79401	Endosulfan [Hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3-oxide].	00115-29-7
123 .....	38901	Endothall .....	00145-73-3
123 .....	( <sup>1</sup> )	Endothall Salts and Esters .....	( <sup>1</sup> )
124 .....	41601	Endrin .....	00072-20-8
125 .....	113101	Ethallfluralin .....	55283-68-6
126 .....	58401	Ethion .....	00563-12-2
127 .....	41101	Ethoprop .....	13194-48-4
128 .....	100601	Fenamiphos .....	22224-92-6
129 .....	28801	Chlorobenzilate .....	00510-15-6
130 .....	41405	Butylate .....	02008-41-5
131 .....	59901	Famphur .....	00052-85-7
132 .....	206600	Fenarimol .....	60168-88-9
133 .....	53301	Fenthion .....	00055-38-9
134 .....	34801	Ferbam .....	14484-64-1
135 .....	35503	Fluometuron .....	02164-17-2
136 .....	75002	Fluoroacetamide .....	00640-19-7
137 .....	81601	Folpet .....	00133-07-3
138 .....	103601	Glyphosate [N-(Phosphonomethyl) glycine] .....	01071-83-6
138 .....	( <sup>1</sup> )	Glyphosate Salts and Esters .....	( <sup>1</sup> )
139 .....	103602	Glyphosine .....	02439-99-8
140 .....	44801	Heptachlor .....	00076-44-8
141 .....	115601	Cycloprate .....	54460-46-7
142 .....	107201	Hexazinone .....	51235-04-2
143 .....	109401	Isofenphos .....	25311-71-1
144 .....	100201	Isopropalin .....	33820-53-0
145 .....	47601	Propham .....	00122-42-9
146 .....	97401	Karbutilate .....	04849-32-5
147 .....	9001	Lindane .....	00058-89-9
148 .....	35506	Linuron .....	00330-55-2
149 .....	39504	Malachite green [Ammonium(4-(p-(dimethylamino)-alpha-phenylbenzylidene)-2,5-cyclohexadien-1-ylidene)-dimethyl chloride].	00569-64-2
150 .....	57701	Malathion .....	00121-75-5
151 .....	14505	Maneb .....	12427-38-2
152 .....	34802	Manganous dimethyldithiocarbamate .....	15339-36-3
153 .....	114001	Mefluidide [N-(2,4-dimethyl-5-(((trifluoromethyl) sulfonyl)-amino) phenyl acetamide].	53780-34-0
153 .....	( <sup>1</sup> )	Mefluidide Salts and Esters .....	( <sup>1</sup> )
154 .....	101201	Methamidophos .....	10265-92-6
155 .....	100301	Methidathion .....	00950-37-8
156 .....	90301	Methomyl .....	16752-77-5



TABLE 1 TO PART 455—LIST OF ORGANIC PESTICIDE ACTIVE INGREDIENTS—Continued

EPA census code	Pesticide code	Pesticide name	CAS No.
157 .....	105401	Methoprene .....	40596–69–8
158 .....	34001	Methoxychlor .....	00072–43–5
159 .....	69134	Methylbenzethonium chloride .....	15716–02–6
160 .....	53201	Methylbromide .....	00074–83–9
162 .....	69129	Hyamine 2389 [Methyldodecylbenzyl trimethyl ammonium chloride 80% and methyldodecylxylene bis (trimethylammoniumchloride) 20%].	01399–80–0
163 .....	68102	Methylenebisthiocyanate .....	06317–18–6
164 .....	54101	Quinmethionate .....	02439–01–2
165 .....	108801	Metolachlor .....	51218–45–2
166 .....	44201	Mexacarbate .....	00315–18–4
167 .....	14601	Metiram .....	09006–42–2
168 .....	35502	Monuron TCA .....	00140–41–0
169 .....	35501	Monuron .....	00150–68–5
170 .....	103001	Napropamide .....	15299–99–7
171 .....	80301	Deet .....	00134–62–3
172 .....	14503	Nabam .....	00142–59–6
173 .....	34401	Naled .....	00300–76–5
174 .....	35801	Norea .....	18530–56–8
175 .....	105801	Norflurazon .....	27314–13–2
176 .....	30701	N-1-Naphthylphthalimide .....	05333–99–3
176 .....	30702	Naptalam [N-1-Naphthylphthalamic acid] .....	00132–66–1
176 .....	30703	Naptalam Salts and Esters .....	00132–67–2
177 .....	57001	MGK 264 [N-2-Ethylhexyl bicycloheptene dicarboximide] .....	00136–45–8
178 .....	84301	Benfluralin .....	01861–40–1
179 .....	79501	Sulfotepp .....	03689–24–5
180 .....	79101	Aspon .....	03244–90–4
181 .....	36501	Coumaphos .....	00056–72–4
182 .....	32701	Fensulfothion .....	00115–90–2
183 .....	32501	Disulfoton .....	00298–04–4
184 .....	105901	Fenitrothion .....	00122–14–5
185 .....	59201	Phosmet .....	00732–11–6
186 .....	58001	Azinphos Methyl .....	00086–50–0
187 .....	58702	Oxydemeton methyl .....	00301–12–2
192 .....	( <sup>1</sup> )	Organo-tin pesticides .....	( <sup>1</sup> )
194 .....	104201	Oryzalin .....	19044–88–3
195 .....	103801	Oxamyl .....	23135–22–0
196 .....	111601	Oxyfluorfen .....	42874–03–3
197 .....	111501	Bolstar [Sulprofos] .....	35400–43–2
198 .....	219900	Sulprofos Oxon .....	38527–90–1
199 .....	41801	Santox (O-Ethyl O-(p-nitrophenyl) phenylphosphonothioate) .....	02104–64–5
200 .....	41701	Fonofos .....	00944–22–9
201 .....	47802	Propoxur (o-Isopropylphenylmethylcarbamate) .....	00114–26–1
202 .....	57501	Parathion .....	00056–38–2
203 .....	108501	Pendimethalin .....	40487–42–1
204 .....	56502	Pentachloronitrobenzene .....	00082–68–8
205 .....	63001	Pentachlorophenol .....	00087–86–5
206 .....	63003	Pentachlorophenol Salts and Esters .....	00131–52–2
207 .....	108001	Perfluidone .....	37924–13–3
208 .....	109701	Permethrin .....	52645–53–1
209 .....	98701	Phenmedipham .....	13684–63–4
210 .....	64501	Phenothiazine .....	00092–84–2
211 .....	64103	Phenylphenol .....	00090–43–7
212 .....	57201	Phorate .....	00298–02–2
213 .....	97701	Phosalone .....	02310–17–0
214 .....	18201	Phosphamidon .....	13171–21–6
215 .....	5101	Picloram .....	01918–02–1
215 .....	5104	Picloram Salts and Esters .....	02545–60–0
216 .....	67501	Piperonyl butoxide .....	00051–03–6
217 .....	69183	PBED (Busan 77) [Poly (oxyethylene (dimethylimino) ethylene (dimethylimino) ethylene dichloride)].	31512–74–0
218 .....	34803	Busan 85 [Potassium dimethyldithiocarbamate] .....	00128–03–0
219 .....	102901	Busan 40 [Potassium N-hydroxymethyl-N-methyldithiocarbamate].	51026–28–9
220 .....	39002	KN Methyl [Potassium N-methyldithiocarbamate] .....	00137–41–7
221 .....	101301	Metasol J26 [Potassium N-(alpha-(nitroethyl) benzyl)-ethylene-diamine].	53404–62–9
222 .....	111401	Profenofos .....	41198–08–7
223 .....	80804	Prometon .....	01610–18–0
224 .....	80805	Prometryn .....	07287–19–6
225 .....	97601	Propargite .....	02312–35–8

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TABLE 1 TO PART 455—LIST OF ORGANIC PESTICIDE ACTIVE INGREDIENTS—Continued

EPA census code	Pesticide code	Pesticide name	CAS No.
226 .....	80808	Propazine .....	00139-40-2
227 .....	77702	Propionic acid .....	00079-09-4
228 .....	119301	Propamocarb and Propamocarb HCL .....	24579-73-5
229 .....	69004	Pyrethrin coils .....	00121-21-1
230 .....	69001	Pyrethrin I .....	
231 .....	69002	Pyrethrum (other than pyrethrins) .....	08003-34-7
232 .....	69006	Pyrethrin II .....	00121-29-9
233 .....	97801	Resmethrin .....	10453-86-8
234 .....	58301	Ronnel .....	00299-84-3
235 .....	71003	Rotenone .....	00083-79-4
236 .....	74801	DEF [S,S,S-Tributyl phosphorotrithioate] .....	00078-48-8
237 .....	35509	Siduron .....	01982-49-6
238 .....	82501	Silvex [2-(2,4,5-Trichlorophenoxypropionic acid)] .....	00093-72-1
238 .....	( <sup>1</sup> )	Silvex Salts and Esters .....	( <sup>1</sup> )
239 .....	80807	Simazine .....	00122-34-9
240 .....	103901	Bentazon .....	25057-89-0
241 .....	34804	Carbam-S [Sodium dimethyldithiocarbamate] .....	00128-04-1
242 .....	75003	Sodium monofluoroacetate .....	00062-74-8
243 .....	39003	Vapam [Sodium methyldithiocarbamate] .....	00137-42-8
244 .....	57101	Sulfoxide .....	00120-62-7
245 .....	41301	Cycloate .....	01134-23-2
246 .....	41401	EPTC [S-Ethyl dipropylthiocarbamate] .....	00759-94-4
247 .....	41402	Molinate .....	02212-67-1
248 .....	41403	Pebulate .....	01114-71-2
249 .....	41404	Vernolate .....	01929-77-7
250 .....	35604	HPTMS [S-(2-Hydroxypropyl) thiomethanesulfonate] .....	29803-57-4
251 .....	9801	Bensulide .....	00741-58-2
252 .....	105501	Tebuthiuron .....	34014-18-1
253 .....	59001	Temephos .....	03383-96-8
254 .....	12701	Terbacil .....	05902-51-2
255 .....	105001	Terbufos .....	13071-79-9
256 .....	80814	Terbutylazine .....	05915-41-3
257 .....	80813	Terbutryn .....	00886-50-0
258 .....	63004	Tetrachlorophenol .....	25167-83-3
258 .....	63007	Tetrachlorophenol Salts and Esters .....	( <sup>1</sup> )
259 .....	35602	Dazomet .....	00533-74-4
260 .....	102001	Thiophanate methyl .....	23564-05-8
261 .....	79801	Thiram .....	00137-26-8
262 .....	80501	Toxaphene .....	08001-35-2
263 .....	74901	Merphos [Tributyl phosphorotrithioate] .....	00150-50-5
264 .....	36101	Trifluralin .....	01582-09-8
265 .....	86002	Warfarin [3-(a-Acetylbenzyl)-4-hydroxycoumarin] .....	00081-81-2
265 .....	( <sup>1</sup> )	Warfarin Salts and Esters .....	( <sup>1</sup> )
266 .....	51705	Zinc MBT [Zinc 2-mercaptobenzothiazolate] .....	00155-04-4
267 .....	14506	Zineb .....	12122-67-7
268 .....	34805	Ziram .....	00137-30-4
269 .....	78802	S-(2,3,3-trichloroallyl) diisopropylthiocarbamate .....	02303-17-5
270 .....	69005	Phenothrin .....	26002-80-2
271 .....	69003	Tetramethrin .....	07696-12-0
272 .....	18301	Chloropropham .....	00101-21-3

Note:

<sup>1</sup> Multiple compounds for active ingredient.

[58 FR 50691, Sept. 28, 1993]

TABLE 2 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT EFFLUENT LIMITATIONS BEST AVAILABLE TECHNOLOGY ECONOMICALLY ACHIEVABLE (BAT) AND PRETREATMENT STANDARDS FOR EXISTING SOURCES (PSES)

Pesticide	kg/kg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
2,4-D .....	1.97×10 <sup>-3</sup>	6.40×10 <sup>-4</sup>	.....
2,4-D Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
2,4-DB Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....

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TABLE 2 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT EFFLUENT LIMITATIONS BEST AVAILABLE TECHNOLOGY ECONOMICALLY ACHIEVABLE (BAT) AND PRETREATMENT STANDARDS FOR EXISTING SOURCES (PSES)—Continued

Pesticide	kg/kg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
Acephate .....	$6.39 \times 10^{-4}$	$1.97 \times 10^{-4}$	.....
Acifluorfen .....	2.45	$9.3 \times 10^{-1}$	.....
Alachlor .....	$5.19 \times 10^{-3}$	$1.54 \times 10^{-3}$	.....
Aldicarb .....	$7.23 \times 10^{-4}$	$3.12 \times 10^{-4}$	.....
Ametryn .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Atrazine .....	$5.12 \times 10^{-3}$	$1.72 \times 10^{-3}$	.....
Azinphos Methyl .....	$2.74 \times 10^{-2}$	$1.41 \times 10^{-2}$	.....
Benfluralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Benomyl and Carbendazim .....	$3.50 \times 10^{-2}$	$8.94 \times 10^{-3}$	2
Bolstar .....	$1.69 \times 10^{-2}$	$8.72 \times 10^{-3}$	.....
Bromacil .....	$3.83 \times 10^{-1}$	$1.16 \times 10^{-1}$	.....
Bromacil, lithium .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Bromoxynil .....	$3.95 \times 10^{-3}$	$1.27 \times 10^{-3}$	.....
Bromoxynil octanoate .....	$3.95 \times 10^{-3}$	$1.27 \times 10^{-3}$	.....
Busan 40 [Potassium N-hydroxymethyl -N- methylthiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Busan 85 [Potassium dimethyldithiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Butachlor .....	$5.19 \times 10^{-3}$	$1.54 \times 10^{-3}$	.....
Captafol .....	$4.24 \times 10^{-6}$	$1.31 \times 10^{-6}$	.....
Carbam-S [Sodium dimethyldithiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Carbaryl .....	$1.6 \times 10^{-3}$	$7.3 \times 10^{-4}$	.....
Carbofuran .....	$1.18 \times 10^{-4}$	$2.80 \times 10^{-5}$	.....
Chloroneb .....	$8.16 \times 10^{-2}$	$3.31 \times 10^{-2}$	.....
Chlorothalonil .....	$1.51 \times 10^{-3}$	$4.57 \times 10^{-4}$	.....
Chlorpyrifos .....	$8.25 \times 10^{-4}$	$2.43 \times 10^{-4}$	.....
Cyanazine .....	$1.03 \times 10^{-2}$	$3.33 \times 10^{-3}$	.....
Dazomet .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
DCPA .....	$7.79 \times 10^{-2}$	$2.64 \times 10^{-2}$	.....
DEF [S,S,S-Tributyl phosphorotrithioate] .....	$1.15 \times 10^{-2}$	$5.58 \times 10^{-3}$	.....
Diazinon .....	$2.82 \times 10^{-3}$	$1.12 \times 10^{-3}$	.....
Dichlorprop Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Dichlorvos .....	$9.6 \times 10^{-5}$	$2.95 \times 10^{-5}$	.....
Dinoseb .....	4.73	1.43	.....
Dioxathion .....	$3.40 \times 10^{-2}$	$1.29 \times 10^{-2}$	.....
Disulfoton .....	$7.33 \times 10^{-3}$	$3.79 \times 10^{-3}$	.....
Diuron .....	$3.15 \times 10^{-2}$	$1.4 \times 10^{-2}$	.....
Endothall Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Endrin .....	$2.2 \times 10^{-2}$	$5.1 \times 10^{-3}$	.....
Ethalfuralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Ethion .....	$5.51 \times 10^{-3}$	$1.57 \times 10^{-3}$	.....
Fenarimol .....	$1.02 \times 10^{-1}$	$3.61 \times 10^{-2}$	.....
Fensulfothion .....	$1.48 \times 10^{-2}$	$7.64 \times 10^{-3}$	.....
Fenthion .....	$1.83 \times 10^{-2}$	$9.45 \times 10^{-3}$	.....
Fenvalerate .....	$5.40 \times 10^{-3}$	$2.08 \times 10^{-3}$	.....
Heptachlor .....	$8.8 \times 10^{-3}$	$2.9 \times 10^{-3}$	.....
Isopropalin .....	$7.06 \times 10^{-3}$	$2.49 \times 10^{-3}$	1
KN Methyl [Potassium N-methyldithiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Linuron .....	$2.69 \times 10^{-3}$	$1.94 \times 10^{-3}$	.....
Malathion .....	$2.35 \times 10^{-4}$	$9.55 \times 10^{-5}$	.....
MCPA Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
MCPP Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Merphos .....	$1.15 \times 10^{-2}$	$5.58 \times 10^{-3}$	.....
Methamidophos .....	$1.46 \times 10^{-2}$	$7.53 \times 10^{-3}$	.....
Methomyl .....	$3.82 \times 10^{-3}$	$1.76 \times 10^{-3}$	.....
Methoxychlor .....	$3.23 \times 10^{-3}$	$1.31 \times 10^{-3}$	.....
Metribuzin .....	$1.36 \times 10^{-2}$	$7.04 \times 10^{-3}$	.....
Mevinphos .....	$1.44 \times 10^{-4}$	$5.10 \times 10^{-5}$	.....
Nabam .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Nabonate .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Naled .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Norflurazon .....	$7.20 \times 10^{-4}$	$3.10 \times 10^{-4}$	.....
Organo-tin pesticides .....	$1.72 \times 10^{-2}$	$7.42 \times 10^{-3}$	3
Parathion .....	$7.72 \times 10^{-4}$	$3.43 \times 10^{-4}$	.....
Parathion methyl .....	$7.72 \times 10^{-4}$	$3.43 \times 10^{-4}$	.....
PCNB .....	$5.75 \times 10^{-4}$	$1.90 \times 10^{-4}$	.....
Pendimethalin .....	$1.30 \times 10^{-2}$	$3.99 \times 10^{-3}$	.....

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TABLE 2 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT EFFLUENT LIMITATIONS BEST AVAILABLE TECHNOLOGY ECONOMICALLY ACHIEVABLE (BAT) AND PRETREATMENT STANDARDS FOR EXISTING SOURCES (PSES)—Continued

Pesticide	kg/kg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
Permethrin .....	$2.32 \times 10^{-4}$	$6.06 \times 10^{-5}$	.....
Phorate .....	$3.12 \times 10^{-4}$	$9.37 \times 10^{-5}$	.....
Phosmet .....	( <sup>1</sup> )	( <sup>1</sup> )	4
Prometon .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Prometryn .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Pronamide .....	$6.64 \times 10^{-4}$	$2.01 \times 10^{-4}$	.....
Propachlor .....	$5.19 \times 10^{-3}$	$1.54 \times 10^{-3}$	.....
Propanil .....	$1.06 \times 10^{-3}$	$4.84 \times 10^{-4}$	.....
Propazine .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Pyrethrin I and Pyrethrin II .....	$1.24 \times 10^{-2}$	$3.33 \times 10^{-3}$	.....
Simazine .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Stirofos .....	$4.10 \times 10^{-3}$	$1.35 \times 10^{-3}$	.....
TCMTB .....	$3.89 \times 10^{-3}$	$1.05 \times 10^{-3}$	.....
Tebuthiuron .....	$9.78 \times 10^{-2}$	$3.40 \times 10^{-2}$	.....
Terbacil .....	$3.83 \times 10^{-1}$	$1.16 \times 10^{-1}$	.....
Terbufos .....	$4.92 \times 10^{-4}$	$1.26 \times 10^{-4}$	.....
Terbutylazine .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Terbutryn .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	.....
Toxaphene .....	$1.02 \times 10^{-2}$	$3.71 \times 10^{-3}$	.....
Triadimefon .....	$6.52 \times 10^{-2}$	$3.41 \times 10^{-2}$	.....
Trifluralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Vapam [Sodium methyldithiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....
Ziram [Zinc dimethyldithiocarbamate] .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	.....

<sup>1</sup> No discharge of process wastewater pollutants.

Notes:

1 Monitor and report as total Trifluralin.

2 Pounds of product include Benomyl and any Carbendazim production not converted to Benomyl.

3 Monitor and report as total tin.

4 Applies to purification by recrystallization portion of the process.

[58 FR 50695, Sept. 28, 1993, as amended at 63

FR 39443, July 22, 1998]

TABLE 3 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND PRETREATMENT STANDARDS FOR NEW SOURCES (PSNS)

Pesticide	kg/kg (lb/1,000 lb) pounds of pollutant per 1000 lbs product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
2,4-D .....	$1.42 \times 10^{-3}$	$4.61 \times 10^{-4}$	.....
2,4-D Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
2,4-DB Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Acephate .....	$6.39 \times 10^{-4}$	$1.97 \times 10^{-4}$	.....
Acifluorfen .....	1.77	$6.69 \times 10^{-1}$	.....
Alachlor .....	$3.74 \times 10^{-3}$	$1.11 \times 10^{-3}$	.....
Aldicarb .....	$5.21 \times 10^{-4}$	$2.25 \times 10^{-4}$	.....
Ametryn .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	.....
Atrazine .....	$3.69 \times 10^{-3}$	$1.24 \times 10^{-3}$	.....
Benfluralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Benomyl and Carbendazom .....	$2.52 \times 10^{-2}$	$6.44 \times 10^{-3}$	2
Bolstar .....	$1.22 \times 10^{-2}$	$6.28 \times 10^{-3}$	.....
Bromacil .....	$2.76 \times 10^{-1}$	$8.36 \times 10^{-2}$	.....
Bromacil, lithium .....	( <sup>1</sup> )	( <sup>1</sup> )	.....
Bromoxynil .....	$2.84 \times 10^{-3}$	$9.14 \times 10^{-4}$	.....
Bromoxynil Octanoate .....	$2.84 \times 10^{-3}$	$9.14 \times 10^{-4}$	.....
Busan 40 [Potassium N-hydroxymethyl-N-methyldithiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	.....
Busan 85 [Potassium dimethyldithiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	.....
Butachlor .....	$3.74 \times 10^{-3}$	$1.11 \times 10^{-3}$	.....
Captafol .....	$4.24 \times 10^{-6}$	$1.31 \times 10^{-6}$	.....
Carbam-S [Sodium dimethyldithiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	.....

TABLE 3 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND PRETREATMENT STANDARDS (PSNS)—Continued

Pesticide	kg/kg (lb/1,000 lb) pounds of pollutant per 1000 lbs product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
Carbaryl .....	$1.18 \times 10^{-3}$	$5.24 \times 10^{-4}$	
Carbofuran .....	$1.18 \times 10^{-4}$	$2.80 \times 10^{-5}$	
Chloroneb .....	$5.87 \times 10^{-2}$	$2.39 \times 10^{-2}$	
Chlorothalonil .....	$1.09 \times 10^{-3}$	$3.29 \times 10^{-4}$	
Chlorpyrifos .....	$5.94 \times 10^{-4}$	$1.75 \times 10^{-4}$	
Cyanazine .....	$7.42 \times 10^{-3}$	$2.40 \times 10^{-3}$	
Dazomet .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	
DCPA .....	$5.61 \times 10^{-2}$	$1.90 \times 10^{-2}$	
DEF [S,S,S-Tributyl phosphorothioate] .....	$1.15 \times 10^{-2}$	$5.58 \times 10^{-3}$	
Diazinon .....	$2.05 \times 10^{-3}$	$8.13 \times 10^{-4}$	
Dichlorprop Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Dichlorvos .....	$6.88 \times 10^{-5}$	$2.13 \times 10^{-5}$	
Dinoseb .....	3.41	1.03	
Dioxathion .....	$2.54 \times 10^{-2}$	$9.31 \times 10^{-3}$	
Disulfoton .....	$5.28 \times 10^{-3}$	$2.72 \times 10^{-3}$	
Diuron .....	$2.27 \times 10^{-2}$	$1.01 \times 10^{-2}$	
Endothall Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Endrin .....	$1.57 \times 10^{-2}$	$3.69 \times 10^{-3}$	
Ethalfuralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Ethion .....	$3.97 \times 10^{-3}$	$1.33 \times 10^{-3}$	
Fenarimol .....	$1.02 \times 10^{-1}$	$3.61 \times 10^{-2}$	
Fensulfothion .....	$1.06 \times 10^{-2}$	$5.50 \times 10^{-3}$	
Fenthion .....	$1.32 \times 10^{-2}$	$6.79 \times 10^{-3}$	
Fenvalerate .....	$3.91 \times 10^{-3}$	$1.50 \times 10^{-3}$	
Guthion .....	$1.97 \times 10^{-2}$	$1.02 \times 10^{-2}$	
Heptachlor .....	$6.31 \times 10^{-3}$	$2.06 \times 10^{-3}$	
Isopropalin .....	$5.07 \times 10^{-3}$	$1.82 \times 10^{-3}$	
KN Methyl [Potassium N-methyldithiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	
Linuron .....	$1.94 \times 10^{-3}$	$1.40 \times 10^{-3}$	
Malathion .....	$1.69 \times 10^{-4}$	$6.88 \times 10^{-5}$	
MCPA Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
MCPP Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Merphos .....	$1.15 \times 10^{-2}$	$5.58 \times 10^{-3}$	
Methamidophos .....	$1.05 \times 10^{-2}$	$5.42 \times 10^{-3}$	
Methomyl .....	$2.75 \times 10^{-3}$	$1.27 \times 10^{-3}$	
Methoxychlor .....	$2.34 \times 10^{-3}$	$9.25 \times 10^{-4}$	
Metribuzin .....	$9.80 \times 10^{-3}$	$5.06 \times 10^{-3}$	
Mevinphos .....	$1.03 \times 10^{-4}$	$3.69 \times 10^{-5}$	
Nabam .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	
Nabonate .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	
Naled .....	( <sup>1</sup> )	( <sup>1</sup> )	
Norflurazon .....	$7.20 \times 10^{-4}$	$3.10 \times 10^{-4}$	
Organo-tin pesticides .....	$1.25 \times 10^{-2}$	$5.36 \times 10^{-3}$	3
Parathion Ethyl .....	$5.56 \times 10^{-4}$	$2.45 \times 10^{-4}$	
Parathion Methyl .....	$5.56 \times 10^{-4}$	$2.45 \times 10^{-4}$	
PCNB .....	$4.16 \times 10^{-4}$	$1.38 \times 10^{-4}$	
Pendimethalin .....	$1.30 \times 10^{-2}$	$3.99 \times 10^{-3}$	
Permethrin .....	$1.68 \times 10^{-4}$	$4.39 \times 10^{-5}$	
Phorate .....	$3.12 \times 10^{-4}$	$9.37 \times 10^{-5}$	
Phosmet .....	( <sup>1</sup> )	( <sup>1</sup> )	4
Prometon .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	
Prometryn .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	
Pronamide .....	$4.78 \times 10^{-4}$	$1.45 \times 10^{-4}$	
Propachlor .....	$3.74 \times 10^{-3}$	$1.11 \times 10^{-3}$	
Propanil .....	$7.63 \times 10^{-4}$	$3.48 \times 10^{-4}$	
Propazine .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	
Pyrethrin I and Pyrethrin II .....	$8.91 \times 10^{-3}$	$2.40 \times 10^{-3}$	
Simazine .....	$5.89 \times 10^{-3}$	$1.91 \times 10^{-3}$	
Stirofos .....	$2.95 \times 10^{-3}$	$9.72 \times 10^{-4}$	
TCMTB .....	$2.80 \times 10^{-9}$	$7.54 \times 10^{-4}$	
Tebuthiuron .....	$9.78 \times 10^{-2}$	$3.41 \times 10^{-2}$	
Terbacil .....	$2.76 \times 10^{-1}$	$8.36 \times 10^{-2}$	
Terbufos .....	$4.92 \times 10^{-4}$	$1.26 \times 10^{-4}$	
Terbutylazine .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	
Terbutryn .....	$5.56 \times 10^{-3}$	$1.82 \times 10^{-3}$	
Toxaphene .....	$7.35 \times 10^{-3}$	$2.67 \times 10^{-3}$	
Triadimefon .....	$4.69 \times 10^{-2}$	$2.46 \times 10^{-2}$	

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TABLE 3 TO PART 455—ORGANIC PESTICIDE ACTIVE INGREDIENT NEW SOURCE PERFORMANCE STANDARDS (NSPS) AND PRETREATMENT STANDARDS FOR NEW SOURCES (PSNS)—Continued

Pesticide	kg/kg (lb/1,000 lb) pounds of pollutant per 1000 lbs product		Notes
	Daily maximum shall not exceed	Monthly average shall not exceed	
Trifluralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Vapam [Sodium methylthiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	
Ziram [Zinc dimethyldithiocarbamate] .....	$4.14 \times 10^{-3}$	$1.35 \times 10^{-3}$	

<sup>1</sup> No discharge of process wastewater pollutants.

Notes:

1 Monitor and report as total Trifluralin.

2 Pounds of product shall include Benomyl and any Carbendazim production not converted to Benomyl.

3 Monitor and report as total tin.

4 Applies to purification by recrystallization portion of the process.

[58 FR 50696, Sept. 28, 1993, as amended at 63 FR 39443, July 22, 1998]

TABLE 4 TO PART 455—BAT AND NSPS EFFLUENT LIMITATIONS FOR PRIORITY POLLUTANTS FOR DIRECT DISCHARGE POINT SOURCES THAT USE END-OF-PIPE BIOLOGICAL TREATMENT

[Micrograms per liter (µg/l)]

Pollutant	Daily maximum shall not exceed	Monthly average shall not exceed
1,1-Dichloroethylene .....	25	16
1,1,1-Trichloroethane .....	54	21
1,2-Dichloroethane .....	211	68
1,2-Dichloropropane .....	230	153
1,2-Dichlorobenzene .....	163	77
1,2-trans-Dichloroethylene .....	54	21
1,3-Dichloropropene .....	44	29
1,4-Dichlorobenzene .....	28	15
2-chlorophenol .....	98	31
2,4-Dichlorophenol .....	112	39
2,4-Dimethylphenol .....	36	18
Benzene .....	136	37
Bromodichloromethane .....	380	142
Bromomethane .....	380	142
Chlorobenzene .....	28	15
Chloromethane .....	190	86
Cyanide (Total) .....	640	220
Dibromochloromethane .....	794	196
Dichloromethane .....	89	40
Ethylbenzene .....	108	32
Lead (Total) .....	690	320
Naphthalene .....	59	22
Phenol .....	26	15
Tetrachloroethylene .....	56	22
Tetrachloromethane .....	38	18
Toluene .....	80	26
Tribromomethane .....	794	196
Trichloromethane .....	46	21

[58 FR 50698, Sept. 28, 1993]

TABLE 5 TO PART 455—BAT AND NSPS EFFLUENT LIMITATIONS FOR PRIORITY POLLUTANTS FOR DIRECT DISCHARGE POINT SOURCES THAT DO NOT USE END-OF-PIPE BIOLOGICAL TREATMENT

[Micrograms per liter (µg/l)]

Pollutant	Daily maximum shall not exceed	Monthly average shall not exceed
1,1-Dichloroethylene .....	60	22
1,1,1-Trichloroethane .....	59	22
1,2-trans-Dichloroethylene .....	66	25
1,2-Dichlorobenzene .....	794	196
1,2-Dichloropropane .....	794	196
1,2-Dichloroethane .....	574	180
1,3-Dichloropropene .....	794	196
1,4-Dichlorobenzene .....	380	142
2,4-Dimethylphenol .....	47	19
Benzene .....	134	57
Bromodichloromethane .....	380	142
Bromomethane .....	380	142
Chlorobenzene .....	380	142
Chloromethane .....	295	110
Cyanide (Total) .....	640	220
Dibromochloromethane .....	794	196
Dichloromethane .....	170	36
Ethylbenzene .....	380	142
Lead (Total) .....	690	320
Naphthalene .....	47	19
Phenol .....	47	19
Tetrachloroethylene .....	164	52
Tetrachloromethane .....	380	142
Toluene .....	74	28
Tribromomethane .....	794	196
Trichloromethane .....	325	111

[58 FR 50698, Sept. 28, 1993]

## Pt. 455, Table 6

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TABLE 6 TO PART 455—PSES AND PSNS FOR  
PRIORITY POLLUTANTS  
[Micrograms per liter (μ g/l)]

Pollutant	Daily maximum shall not exceed	Monthly maximum shall not exceed
1,1-Dichloroethylene .....	60	22
1,1,1-Trichloroethane .....	59	22
1,2-trans-Dichloroethylene .....	66	25
1,2-Dichlorobenzene .....	794	196
1,2-Dichloropropane .....	794	196
1,2-Dichloroethane .....	574	180
1,3-Dichloropropene .....	794	196
1,4-Dichlorobenzene .....	380	142
Benzene .....	134	57
Bromodichloromethane .....	380	142
Bromomethane .....	380	142
Chlorobenzene .....	380	142
Chloromethane .....	295	110
Cyanide (Total) .....	640	220

TABLE 6 TO PART 455—PSES AND PSNS FOR  
PRIORITY POLLUTANTS—Continued  
[Micrograms per liter (μ g/l)]

Pollutant	Daily maximum shall not exceed	Monthly maximum shall not exceed
Dibromochloromethane .....	794	196
Dichloromethane .....	170	36
Ethylbenzene .....	380	142
Lead (Total) .....	690	320
Naphthalene .....	47	19
Tetrachloroethylene .....	164	52
Tetrachloromethane .....	380	142
Toluene .....	74	28
Tribromomethane .....	794	196
Trichloromethane .....	325	111

[58 FR 50699, Sept. 28, 1993]

TABLE 7 TO PART 455—TEST METHODS FOR PESTICIDE ACTIVE INGREDIENTS

EPA survey code	Pesticide name	CAS No.	EPA analytical method No.(s)
8 .....	Triadimefon .....	43121–43–3	507/633/525.1/1656
12 .....	Dichlorvos .....	00062–73–7	1657/507/622/525.1
16 .....	2,4-D; 2,4-D Salts and Esters [2,4-Dichlorophenoxyacetic acid].	00094–75–7	1658/515.1/615/515.2/555
17 .....	2,4-DB; 2,4-DB Salts and Esters [2,4-Dichlorophenoxybutyric acid].	00094–82–6	1658/515.1/615/515.2/555
22 .....	Mevinphos .....	07786–34–7	1657/507/622/525.1
25 .....	Cyanazine .....	21725–46–2	629/507
26 .....	Propachlor .....	01918–16–7	1656/508/608.1/525.1
27 .....	MCPA; MCPA Salts and Esters [2-Methyl-4-chlorophenoxyacetic acid].	00094–74–6	1658/615/555
30 .....	Dichlorprop; Dichlorprop Salts and Esters [2-(2,4-Dichlorophenoxy) propionic acid].	00120–36–5	1658/515.1/615/515.2/555
31 .....	MCPP; MCPP Salts and Esters [2-(2-Methyl-4-chlorophenoxy) propionic acid].	00093–65–2	1658/615/555
35 .....	TCMTB [2-(Thiocyanomethylthio) benzothiazole] .....	21564–17–0	637
39 .....	Pronamide .....	23950–58–5	525.1/507/633.1
41 .....	Propanil .....	00709–98–8	632.1/1656
45 .....	Metribuzin .....	21087–64–9	507/633/525.1/1656
52 .....	Acephate .....	30560–19–1	1656/1657
53 .....	Acifluorfen .....	50594–66–6	515.1/515.2/555
54 .....	Alachlor .....	15972–60–8	505/507/645/525.1/1656
55 .....	Aldicarb .....	00116–06–3	531.1
58 .....	Ametryn .....	00834–12–8	507/619/525.1
60 .....	Atrazine .....	01912–24–9	505/507/619/525.1/1656
62 .....	Benomyl .....	17804–35–2	631
68 .....	Bromacil; Bromacil Salts and Esters .....	00314–40–9	507/633/525.1/1656
69 .....	Bromoxynil .....	01689–84–5	1625/1661
69 .....	Bromoxynil octanoate .....	01689–99–2	1656
70 .....	Butachlor .....	23184–66–9	507/645/525.1/1656
73 .....	Captafol .....	02425–06–1	1656
75 .....	Carbaryl [Sevin] .....	00063–25–2	531.1/632/553
76 .....	Carbofuran .....	01563–66–2	531.1/632
80 .....	Chloroneb .....	02675–77–6	1656/508/608.1/525.1
82 .....	Chlorothalonil .....	01897–45–6	508/608.2/525.1/1656
84 .....	Stiufos .....	00961–11–5	1657/507/622/525.1
86 .....	Chlorpyrifos .....	02921–88–2	1657/508/622
90 .....	Fenvalerate .....	51630–58–1	1660
103 .....	Diazinon .....	00333–41–5	1657/507/614/622/525.1
107 .....	Parathion methyl .....	00298–00–0	1657/614/622
110 .....	DCPA [Dimethyl 2,3,5,6-tetrachloroterephthalate] .....	01861–32–1	508/608.2/525.1/515.1/515.2/1656
112 .....	Dinoseb .....	00088–85–7	1658/515.1/615/515.2/555
113 .....	Dioxathion .....	00078–34–2	1657/614.1
118 .....	Nabonate [Disodium cyanodithioimidocarbonate] .....	00138–93–2	630.1
119 .....	Diuron .....	00330–54–1	632/553
123 .....	Endothall .....	00145–73–3	548/548.1
124 .....	Endrin .....	00072–20–8	1656/505/508/608/617/525.1

TABLE 7 TO PART 455—TEST METHODS FOR PESTICIDE ACTIVE INGREDIENTS—Continued

EPA survey code	Pesticide name	CAS No.	EPA analytical method No.(s)
125	Ethalfuralin	55283-68-6	<sup>1</sup> 1656/ <sup>1</sup> 627
126	Ethion	00563-12-2	1657/614/614.1
127	Ethoprop	13194-48-4	1657/507/622/525.1
132	Fenarimol	60168-88-9	507/633.1/525.1/1656
133	Fenthion	00055-38-9	1657/622
138	Glyphosate [N-(Phosphonomethyl) glycine]	01071-83-6	547
140	Heptachlor	00076-44-8	1656/505/508/608/617/525.1
144	Isopropalin	33820-53-0	1656/627
148	Linuron	00330-55-2	553/632
150	Malathion	00121-75-5	1657/614
154	Methamidophos	10265-92-6	1657
156	Methomyl	16752-77-5	531.1/632
158	Methoxychlor	00072-43-5	1656/505/508/608.2/617/525.1
172	Nabam	00142-59-6	630/630.1
173	Naled	00300-76-5	1657/622
175	Norflurazon	27314-13-2	507/645/525.1/1656
178	Benfluralin	01861-40-1	<sup>1</sup> 1656/ <sup>1</sup> 627
182	Fensulfothion	00115-90-2	1657/622
183	Disulfoton	00298-04-4	1657/507/614/622/525.1
185	Phosmet	00732-11-6	1657/622.1
186	Azinphos Methyl	00086-50-0	1657/614/622
192	Organo-tin pesticides	12379-54-3	Ind-01/200.7/200.9
197	Bolstar	35400-43-2	1657/622
203	Parathion	00056-38-2	1657/614
204	Pendimethalin	40487-42-1	1656
205	Pentachloronitrobenzene	00082-68-8	1656/608.1/617
206	Pentachlorophenol	00087-86-5	625/1625/515.2/555/515.1/ 525.1
208	Permethrin	52645-53-1	608.2/508/525.1/1656/1660
212	Phorate	00298-02-2	1657/622
218	Busan 85 [Potassium dimethyldithiocarbamate]	00128-03-0	630/630.1
219	Busan 40 [Potassium N-hydroxymethyl-N-methyldithiocarbamate]	51026-28-9	630/630.1
220	KN Methyl [Potassium N-methyldithiocarbamate]	00137-41-7	630/630.1
223	Prometon	01610-18-0	507/619/525.1
224	Prometryn	07287-19-6	507/619/525.1
226	Propazine	00139-40-2	507/619/525.1/1656
230	Pyrethrin I	00121-21-1	1660
232	Pyrethrin II	00121-29-9	1660
236	DEF [S,S,S-Tributyl phosphorotrithioate]	00078-48-8	1657
239	Simazine	00122-34-9	505/507/619/525.1/1656
241	Carbam-S [Sodium dimethyldithiocarbamate]	00128-04-1	630/630.1
243	Vapam [Sodium methyldithiocarbamate]	00137-42-8	630/630.1
252	Tebuthiuron	34014-18-1	507/525.1
254	Terbacil	05902-51-2	507/633/525.1/1656
255	Terbufos	13071-79-9	1657/507/614.1/525.1
256	Terbutylazine	05915-41-3	619/1656
257	Terbutryn	00886-50-0	507/619/525.1
259	Dazomet	00533-74-4	630/630.1/1659
262	Toxaphene	08001-35-2	1656/505/508/608/617/525.1
263	Merphos [Tributyl phosphorotrithioate]	00150-50-5	1657/507/525.1/622
264	Trifluralin	01582-09-8	1656/508/617/627/525.1
268	Ziram [Zinc dimethyldithiocarbamate]	00137-30-4	630/630.1

<sup>1</sup> Monitor and report as total Trifluralin.

[58 FR 50699, Sept. 28, 1993]

TABLE 8 TO PART 455—LIST OF POLLUTION PREVENTION ALTERNATIVE PRACTICES

A modification to the list of practices on this table that an individual facility must comply with to be eligible for the pollution prevention alternative is allowed with acceptable justification as listed on this table as ap-

proved by the permit writer or control authority (using BPJ/BEJ) after submittal by the facility of a request for modification. A modification, for purposes of this table, means that a facility would no longer have to perform a listed practice or would need to comply with a modified practice. However, the modification only applies to the specific practice for which the modification has been justified and to no other



listed practices. Facilities are required to thoroughly discuss all modifications in the on-site compliance paperwork as described above in the limitations and standards (§455.41(c)).

1. Must use water conservation practices. These practices may include, but are not limited to using: spray nozzles or flow reduction devices on hoses, low volume/high pressure rinsing equipment, floor scrubbing machines, mop(s) and bucket(s), and counter current staged drum rinsing stations.

[Modification allowed when: Rinsing narrow transfer lines or piping where sufficient rinsing is better achieved by flushing with water.]

2. Must practice good housekeeping:

(a) Perform preventative maintenance on all valves and fittings and repair leaky valves and fittings in a timely manner;

(b) Use drip pans under any valves or fittings where hoses or lines are routinely connected and disconnected, collect for reuse when possible; and

(c) Perform quick cleanup of leaks and spills in outdoor bulk storage or process areas.

3. Must sweep or vacuum dry production areas prior to rinsing with water.

4. Must clean interiors of dry formulation equipment with dry carrier prior to any water rinse. The carrier material must be stored and reused in future formulation of the same or compatible product or properly disposed of as solid waste.

5. If operating continuous overflow Department of Transportation (DOT) aerosol leak test baths—>

Must operate with some recirculation.

6. If operating air pollution control wet scrubbers—>

Must operate as recirculating scrubbers (periodic blowdown is allowed as needed).

[Modification allowed when: Facility demonstrates that they would not be able to meet Resource Conservation Recovery Act or Clean Air Act (CAA) requirements.]

7. When performing rinsing of raw material drums, storage drums, and/or shipping containers that contained liquid PAI(s) and/or inert ingredients for the formulation of water-based products—>

Must reuse the drum/shipping container rinsate DIRECTLY into the formulation at the time of formulation; or store for use in future formulation of same or compatible product; or use a staged drum rinsing station (counter current rinsing).

[Modification allowed when: the drum/shipping container holds inert ingredient(s) only and (1) the facility can demonstrate that, after using water conservation practices, the large concentration of inert ingredient in the formulation creates more volume than could feasibly be reused; or (2) the facility can demonstrate that the concentration of the inert in the formulation is so small that the reuse would cause a formulation to exceed the ranges allowed in the Confidential Statement of Formula (CSF) (40 CFR 158.155).]

8. When performing rinsing of raw material drums, storage drums, and/or shipping containers that contained liquid PAI(s) and/or inert ingredients for the formulation of solvent-based products—>

Must reuse the drum/shipping container rinsate DIRECTLY into the formulation at the time of formulation or store for use in future formulation of same or compatible product.

[Modification allowed when:

(a) The drum/shipping container holds inert ingredient(s) only and: (1) The facility can demonstrate that, after using water conservation practices, the large concentration of inert ingredient in the formulation creates more volume than could feasibly be reused; or (2) the facility can demonstrate that the concentration of the inert in the formulation is so small that the reuse would cause a formulation to exceed the ranges allowed in the Confidential Statement of Formula (CSF) (40 CFR 158.155); or

(b) Drums/shipping containers are going to a drum refurbisher/recycler who will only accept drums rinsed with water.]

9. Must dedicate PFPR production equipment by water-based versus solvent-based products. Dedicated solvent-based or water-based equipment may be used on a non-routine basis for non-dedicated operations; however the

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facility may not discharge the solvent/ aqueous changeover rinsate as part of their P2 allowable discharge (i.e., the facility must achieve zero discharge of those process wastewater pollutants).

[Modification allowed when: Facility has installed and is using a solvent recovery system for the changeover rinsate (can also be used for other solvent recovery).]

10. Must store the rinsate from interior rinsing (does not include drum/ shipping container rinsate) for reuse in future formulation of same or compatible product.

[Modification allowed when:

(a) Facility has evidence of biological growth or other product deterioration over a typical storage period;

(b) Facility has space limitations, BUT must still store rinsates for most frequently produced products;

(c) Manufacturer (or formulator contracting for toll formulating) has directed otherwise (i.e., send back to them or send for off-site disposal);

(d) Facility is dropping registration or production of the formulation and there is no compatible formulation for reuse of the rinsates or facility can provide reasonable explanation of why it does not anticipate formulation of same or compatible formulation within the next 12 months;

(e) Facility only performs packaging of the pesticide product from which interior rinsate is generated; or

(f) Facility has demonstrated that it must use a detergent to clean the equipment.]

## NOTES

*For indirect dischargers:* After following the practices above, some wastewaters may require pretreatment prior to discharge to POTWs. See definition of pollution prevention allowable discharge for indirect dischargers (§455.41(d)).

*For direct dischargers:* After following the practices above, all wastewaters require treatment prior to discharge directly to the nation's waters. See definition of pollution prevention allowable discharge for direct dischargers (§455.41(e)).

*Additional information and guidance* on implementing these P2 practices as well as evaluating compliance with these practices will be available in a P2 Guidance Manual for the PFPR Industry.

[61 FR 57553, Nov. 6, 1996]

TABLE 9 TO PART 455—GROUP 2 MIXTURES

Shaughnessey code	Chemical name <sup>1</sup>
002201 .....	Sabadilla alkaloids.
006501 .....	Aromatic petroleum derivative solvent.
006602 .....	Heavy aromatic naphtha.
016601 <sup>2</sup> .....	Dry ice.
022003 .....	Coal tar.
025001 .....	Coal tar neutral oils.
025003 .....	Creosote oil (Note: Derived from any source).
025004 .....	Coal tar creosote.
031801 .....	Ammonium salts of C8–18 and C18' fatty acids.
055601 .....	BNOA.
063501 .....	Kerosene.
063502 .....	Mineral oil—includes paraffin oil from 063503.
063503 .....	Petroleum distillate, oils, solvent, or hydrocarbons; also p.
063506 .....	Mineral spirits.
067003 .....	Terpineols (unspec.).
067205 .....	Pine tar oil.
067207 .....	Ester gum.
067302 .....	Amines, N-coco alkyltrimethylenedi-, acetates.
069152 .....	Amines, coco alkyl, hydrochlorides.
070801 .....	Red Squill glycoside.
071004 .....	Cube Resins other than rotenone.
071501 .....	Ryania speciosa, powdered stems of.
072602 <sup>2</sup> .....	Silica gel.
072605 <sup>2</sup> .....	Silicon dioxide.
079014 .....	Turkey red oil.
079021 .....	Potassium salts of fatty acids.
079029 .....	Fatty alcohols (52–61% C10, 39–46% C8, 0–3% C6, 0–3% C12).
079034 .....	Methyl esters of fatty acids (100% C8–C12)
079059 .....	Fatty alcohols (54.5% C10, 45.1% C8, 0.4% C6)
086803 .....	Xylene range aromatic solvent
107302 .....	Polyhedral inclusion bodies of Douglas fir tussock moth nucl.
107303 .....	Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis.
107304 .....	Polyhedral inclusion bodies of n. sertifer
116902 .....	Gibberellin A4 mixt. with Gibberellin A7.
117001 .....	Nosema locustae.
128888 .....	Lactofen (ANSI).
128934 <sup>2</sup> .....	Nitrogen, liquid.
129029 .....	Bergamot Oil.
224600 .....	Diethanolamides of the fatty acids of coconut oil (coded 079).
505200 .....	Isoparaffinic hydrocarbons.

<sup>1</sup>Shaughnessey codes and chemical names are taken directly from the FATES database. Several chemical names are truncated because the chemical names listed in the FATES database are limited to 60 characters.

<sup>2</sup>EPA does not believe this PAI will persist in sanitary streams long enough to reach a POTW.

[61 FR 57554, Nov. 6, 1996]

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES

This table contains those pollutant control technologies, such as hydrolysis, chemical oxidation, precipitation and activated carbon adsorption, which have been used for estimating compliance costs on a PAI specific

basis. In general, these treatment technologies have been determined to be effective in treating pesticide containing wastewaters in literature, in bench or pilot scale treatability studies or in the Pesticide Manufacturing effluent guidelines. These are the same technologies that are presented as part of the Universal Treatment System. However, these technologies are PAI specific and may need to be used in conjunction with one another to provide treatment for all PAIs used at a facility over a period of time.

In addition, facilities may experience difficulties treating wastewaters that contain emulsions, therefore, “appropriate” treatment for emulsified wastewaters must include an emulsion breaking step. For PAIs whose technology is listed as “Pollution Prevention”, the permitting authority/control authority can determine if additional treatment is necessary through best professional judgement/best engineering judgement, respectively.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES <sup>1</sup>

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Dicofol .....	001	10501	DDT .....	Hydrolysis.
Maleic Hydrazide .....	002	51501	Hydrazide .....	Activated Carbon.
EDB .....	003	42002	EDB .....	Activated Carbon.
Vandice TH .....	004	82901	s-Triazine .....	Activated Carbon.
1,3-Dichloropropene .....	005	29001	EDB .....	Hydrolysis.
Thenarsazine Oxide .....	006	12601	Organoarsenic .....	Precipitation.
Dowicil 75 .....	007	17901	NR4 .....	Activated Carbon.
Triadimefon .....	008	109901	s-Triazine .....	Activated Carbon.
Hexachlorophene .....	009	44901	Chlorophene .....	Activated Carbon.
Tetrachlorophene .....	010	.....	Chlorophene .....	Activated Carbon.
Dichlorophene .....	011	55001	Chlorophene .....	Activated Carbon.
Dichlorvos .....	012	84001	Phosphate .....	Hydrolysis.
Landrin-2 .....	013	.....	Carbamate .....	Activated Carbon.
2,3,6-T, S&E or Fenac .....	014	82605	2,4-D .....	Activated Carbon.
2,4,5-T and 2,4,5-T, S&E .....	015	(*)	2,4-D .....	Activated Carbon.
2,4-D (2,4-D, S&E) .....	016	(*)	2,4-D .....	Chemical Oxidation.
2,4-DB, S&E .....	017	(*)	2,4-D .....	Activated Carbon.
Dyrene or Anilazine .....	018	80811	s-Triazine .....	Activated Carbon.
Dinocap .....	019	36001	Phenylcrotonate .....	Activated Carbon.
Dichloran or DCNA .....	020	31301	Aryl Halide .....	Activated Carbon.
Busan 90 .....	021	8707	Miscellaneous Organic .....	Activated Carbon.
Mevinphos .....	022	15801	Phosphate .....	Hydrolysis.
Sulfallate .....	023	.....	Dithiocarbamate .....	Activated Carbon.
Chlorfenvinphos .....	024	84101	Phosphate .....	Activated Carbon.
Cyanazine or Bladex .....	025	100101	s-Triazine .....	Activated Carbon.
Propachlor .....	026	19101	Acetanilide .....	Activated Carbon.
MCPA, S&E .....	027	(*)	2,4-D .....	Activated Carbon.
Ocethalinone .....	028	99901	Heterocyclic .....	Activated Carbon.
Pindone .....	029	67703	Miscellaneous Organic .....	Activated Carbon.
Dichlorprop, S&E .....	030	(*)	2,4-D .....	Activated Carbon.
MCP, S&E or Mecoprop .....	031	(*)	2,4-D .....	Activated Carbon.
Thiabendazole .....	032	60101	Heterocyclic .....	Activated Carbon.
Belclene 310 .....	033	80815	s-Triazine .....	Activated Carbon.
Chlorprop, S&E .....	034	21202	2,4-D .....	Activated Carbon.
Busan 72 or TCMTB .....	035	35603	Heterocyclic .....	Hydrolysis.
Chlorophacinone .....	037	67707	Miscellaneous Organic .....	Activated Carbon.
Landrin-1 .....	038	.....	Carbamate .....	Activated Carbon.
Pronamide .....	039	101701	Chlorobenzamide .....	Activated Carbon.
Methiocarb or Mesurol .....	040	100501	Carbamate .....	Hydrolysis.
Propanil .....	041	28201	Chloropropionanilide .....	Activated Carbon.
Polyphase <sup>6</sup> .....	042	107801	Carbamate .....	Activated Carbon.
Coumafuryl or Fumarin .....	043	86001	Coumarin .....	Activated Carbon.
DNOC .....	044	.....	Phenol .....	Activated Carbon.
Metribuzin .....	045	101101	Triazathione .....	Activated Carbon.
CPA, S&E .....	046	(*)	2,4-D .....	Activated Carbon.
MCPB, S&E .....	047	19202	2,4-D .....	Activated Carbon.
Aminocarb .....	048	.....	Carbamate .....	Hydrolysis.
Etridiazole .....	049	84701	Heterocyclic .....	Activated Carbon.
Ethoxyquin .....	050	55501	Quinolin .....	Activated Carbon.
Acephate or Orthene .....	052	103301	Phosphoramidothioate .....	Activated Carbon.
Acifluorfen .....	053	114402	Benzoic Acid .....	Activated Carbon.
Alachlor .....	054	90501	Acetanilide .....	Activated Carbon.
Aldicarb .....	055	98301	Carbamate .....	Hydrolysis.
Allethrin .....	057	(*)	Pyrethrin .....	Activated Carbon.
Ametryn .....	058	80801	s-Triazine .....	Activated Carbon.
Amitraz .....	059	106201	Iminamide .....	Activated Carbon.
Atrazine .....	060	80803	s-Triazine .....	Hydrolysis.

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TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Bendiocarb .....	061	105201	Carbamate .....	Hydrolysis.
Benomyl .....	062	99101	Carbamate .....	Hydrolysis.
BHC .....	063	.....	Lindane .....	Hydrolysis.
Benzyl Benzoate .....	064	9501	Ester .....	Activated Carbon.
Lethane 60 .....	065	.....	Thiocyanate .....	Activated Carbon.
Bifenox .....	066	104301	Nitrobenzoate .....	Activated Carbon.
Biphenyl .....	067	17002	Aryl .....	Activated Carbon.
Bromacil (Lithium Salt) .....	068	(*)	Uracil .....	Activated Carbon.
Bromoxynil .....	069	(*)	Benzonitrile .....	Activated Carbon.
Butachlor .....	070	.....	Acetanilide .....	Activated Carbon.
Giv-gard .....	071	101401	Miscellaneous Organic .....	Activated Carbon.
Cacodylic Acid .....	072	(*)	Organoarsenic .....	Precipitation.
Captafol .....	073	.....	Phthalimide .....	Hydrolysis.
Captan .....	074	81301	Phthalimide .....	Hydrolysis.
Carbaryl .....	075	56801	Carbamate .....	Hydrolysis.
Carbofuran .....	076	90601	Carbamate .....	Hydrolysis.
Carbosulfan .....	077	.....	Carbamate .....	Activated Carbon.
Chloramben .....	078	(*)	Benzoic Acid .....	Activated Carbon.
Chlordane .....	079	58201	Tricyclic .....	Activated Carbon.
Chloroneb .....	080	27301	Aryl Halide .....	Chemical Oxidation.
Chloropicrin .....	081	81501	Alkyl Halide .....	Chemical Oxidation.
Chlorothalonil .....	082	81901	Chloropropionanilide .....	Activated Carbon.
Chloroxuron .....	083	.....	Urea .....	Activated Carbon.
Stirofos .....	084	83701	Phosphate .....	Hydrolysis.
Chlorpyrifos Methyl .....	085	59102	Phosphorothioate .....	Hydrolysis.
Chlorpyrifos .....	086	59101	Phosphorothioate .....	Chemical Oxidation.
Mancozeb .....	087	14504	Dithiocarbamate .....	Activated Carbon.
Bioquin (Copper) .....	088	24002	Organocopper .....	Precipitation.
Copper EDTA .....	089	39105	Organocopper .....	Precipitation.
Pydrin or Fenvalerate .....	090	109301	Pyrethrin .....	Activated Carbon.
Cycloheximide .....	091	.....	Cyclic Ketone .....	Activated Carbon.
Dalapon .....	092	(*)	Alkyl Halide .....	Activated Carbon.
Dienochlor .....	093	27501	HCp .....	Activated Carbon.
Demeton .....	094	.....	Phosphorothioate .....	Hydrolysis.
Desmedipham .....	095	104801	Carbamate .....	Hydrolysis.
Amobam .....	096	.....	Miscellaneous Organic .....	Activated Carbon.
DBCP .....	097	.....	EDB .....	Activated Carbon.
Dicamba .....	098	(*)	Aryl Halide .....	Activated Carbon.
Dichlone .....	099	29601	Quinone .....	Activated Carbon.
Thiophanate Ethyl .....	100	103401	Carbamate .....	Hydrolysis.
Perthane .....	101	.....	DDT .....	Activated Carbon.
EXD .....	102	.....	Dithiocarbamate .....	Activated Carbon.
Diazinon .....	103	57801	Phosphorothioate .....	Hydrolysis.
Diflubenzuron .....	104	108201	Urea .....	Activated Carbon.
Dimethoate .....	106	35001	Phosphorodithioate .....	Hydrolysis.
Parathion Methyl .....	107	53501	Phosphorothioate .....	Hydrolysis.
Dicrotophos .....	108	35201	Phosphate .....	Activated Carbon.
Crotoxyphos .....	109	58801	Phosphate .....	Activated Carbon.
DCPA .....	110	78701	Aryl Halide .....	Activated Carbon.
Trichlorofon .....	111	57901	Phosphonate .....	Activated Carbon.
Dinoseb .....	112	37505	Phenol .....	Activated Carbon.
Dioxathion .....	113	37801	Phosphorodithioate .....	Hydrolysis.
Diphacinone .....	114	67701	Indandione .....	Activated Carbon.
Diphenamide .....	115	36601	Acetamide .....	Activated Carbon.
Diphenylamine .....	116	38501	Aryl Amine .....	Activated Carbon.
MGK 326 .....	117	47201	Ester .....	Activated Carbon.
Nabonate .....	118	63301	Isocyanate .....	Chemical Oxidation.
Diuron .....	119	35505	Urea .....	Activated Carbon.
Metasol DGH .....	120	44303	NR4 .....	Activated Carbon.
Dodine .....	121	44301	NR4 .....	Activated Carbon.
Endosulfan .....	122	79401	Tricyclic .....	Activated Carbon.
Endothall (Endothall S&E) .....	123	(*)	Bicyclic .....	Activated Carbon.
Endrin .....	124	41601	Tricyclic .....	Activated Carbon.
Ethalfuralin .....	125	113101	Toluidine .....	Activated Carbon.
Ethion .....	126	58401	Phosphorodithioate .....	Hydrolysis.
Ethoprop .....	127	41101	Phosphorodithioate .....	Activated Carbon.
Fenamiphos .....	128	100601	Phosphoroamidate .....	Activated Carbon.
Chlorobenzilate .....	129	28801	Aryl Halide .....	Activated Carbon.
Butylate .....	130	41405	Thiocarbamate .....	Activated Carbon.
Famphur .....	131	.....	Phosphorothioate .....	Hydrolysis.
Fenarimol .....	132	206600	Pyrimidine .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Fenthion or Baytex .....	133	53301	Phosphorothioate .....	Hydrolysis.
Ferbam .....	134	34801	Dithiocarbamate .....	Activated Carbon.
Fluometuron .....	135	35503	Urea .....	Activated Carbon.
Fluoroacetamide .....	136	.....	Acetamide .....	Activated Carbon.
Folpet .....	137	81601	Phthalimide .....	Hydrolysis.
Glyphosate (Glyphosate S&E) ..	138	(*)	Phosphoroamidate .....	Chemical Oxidation.
Glyphosine .....	139	.....	Phosphoroamidate .....	Activated Carbon.
Heptachlor .....	140	44801	Tricyclic .....	Activated Carbon.
Cycloprate .....	141	.....	Thiocarbamate .....	Activated Carbon.
Hexazinone .....	142	107201	s-Triazine .....	Activated Carbon.
Isofenphos .....	143	109401	Phosphoroamidothioate .....	Activated Carbon.
Isopropalin .....	144	100201	Toluidine .....	Activated Carbon.
Propham .....	145	.....	Carbamate .....	Hydrolysis.
Karabutilate .....	146	97401	Carbamate .....	Hydrolysis.
Lindane .....	147	9001	Lindane .....	Activated Carbon.
Linuron .....	148	35506	Urea .....	Chemical Oxidation.
Malachite Green .....	149	39504	NR4 .....	Activated Carbon.
Malathion .....	150	57701	Phosphorodithioate .....	Hydrolysis.
Maneb .....	151	14505	Dithiocarbamate .....	Activated Carbon.
Manam .....	152	.....	Dithiocarbamate .....	Activated Carbon.
Mefluidide .....	153	114002	Carbamate .....	Activated Carbon.
Methamidophos .....	154	101201	Phosphoroamidothioate .....	Activated Carbon.
Methidathion .....	155	100301	Phosphorodithioate .....	Activated Carbon.
Methomyl .....	156	90301	Carbamate .....	Hydrolysis.
Methoprene .....	157	(*)	Ester .....	Activated Carbon.
Methoxychlor .....	158	34001	DDT .....	Hydrolysis.
Methyl Bromide .....	160	53201	Alkyl Halide .....	Activated Carbon.
Monosodium Methyl Arsenate ..	161	(*)	Organoarsenic .....	Precipitation.
Nalco D-2303 .....	163	68102	Thiocyanate .....	Activated Carbon.
Quinomethionate .....	164	54101	Miscellaneous Organic .....	Activated Carbon.
Metolachlor .....	165	108801	Acetanilide .....	Activated Carbon.
Mexacarbate .....	166	.....	Carbamate .....	Hydrolysis.
Metiram .....	167	14601	Dithiocarbamate .....	Activated Carbon.
Monuron TCA .....	168	35502	Urea .....	Activated Carbon.
Monuron .....	169	35501	Urea .....	Activated Carbon.
Napropamide .....	170	103001	Carbamate .....	Activated Carbon.
Deet .....	171	80301	Toluamide .....	Activated Carbon.
Nabam .....	172	14503	Dithiocarbamate .....	Chemical Oxidation.
Naled .....	173	34401	Phosphate .....	Hydrolysis.
Norea .....	174	.....	Urea .....	Activated Carbon.
Norflurazon .....	175	105801	Heterocyclic .....	Activated Carbon.
Naptalam or Neptalam .....	176	30703	Phthalimide .....	Activated Carbon.
MGK 264 .....	177	57001	Bicyclic .....	Activated Carbon.
Benfluralin .....	178	84301	Toluidine .....	Activated Carbon.
Sulfotepp .....	179	79501	Phosphorothioate .....	Activated Carbon.
Aspon .....	180	.....	Phosphorothioate .....	Activated Carbon.
Coumaphos .....	181	36501	Phosphorothioate .....	Hydrolysis.
Fensulfothion .....	182	32701	Phosphorothioate .....	Hydrolysis.
Disulfoton .....	183	32501	Phosphorodithioate .....	Hydrolysis.
Fenitrothion .....	184	105901	Phosphorothioate .....	Hydrolysis.
Phosmet .....	185	59201	Phosphorodithioate .....	Hydrolysis.
Azinphos Methyl (Guthion) .....	186	58001	Phosphorodithioate .....	Hydrolysis.
Oxydemeton Methyl .....	187	58702	Phosphorothioate .....	Activated Carbon.
Organo-Arsenic Pesticides .....	188	.....	Organoarsenic .....	Precipitation.
Organo-Cadmium Pesticides ....	189	.....	Organocadmium .....	Precipitation.
Organo-Copper Pesticides .....	190	(*)	Organocopper .....	Precipitation.
Organo-Mercury Pesticides .....	191	(*)	Organomercury .....	Precipitation.
Organo-Tin Pesticides .....	192	(*)	Organotin .....	Precipitation.
o-Dichlorobenzene .....	193	59401	Aryl Halide .....	Activated Carbon.
Oryzalin .....	194	104201	Sulfanilamide .....	Activated Carbon.
Oxamyl .....	195	103801	Carbamate .....	Hydrolysis.
Oxyfluorfen .....	196	111601	Miscellaneous Organic .....	Activated Carbon.
Bolstar .....	197	111501	Phosphorodithioate .....	Activated Carbon.
Sulprofos Oxon .....	198	.....	Phosphorothioate .....	Hydrolysis.
Santox (EPN) .....	199	41801	Phosphorodithioate .....	Hydrolysis.
Fonofos .....	200	41701	Phosphorodithioate .....	Hydrolysis.
Propoxur .....	201	47802	Carbamate .....	Hydrolysis.
p-Dichlorobenzene .....	202	61501	Aryl Halide .....	Activated Carbon.
Parathion Ethyl .....	203	57501	Phosphorothioate .....	Hydrolysis.
Pendimethalin .....	204	108501	Benzeneamine .....	Activated Carbon.
PCNB .....	205	56502	Aryl Halide .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
PCP or Penta .....	206	(*)	Phenol .....	Activated Carbon.
Perfluidone .....	207	.....	Sulfonamide .....	Activated Carbon.
Permethrin .....	208	109701	Pyrethrin .....	Activated Carbon.
Phenmedipham .....	209	98701	Carbamate .....	Hydrolysis.
Nemazine .....	210	64501	Heterocyclic .....	Activated Carbon.
Phorate .....	212	57201	Phosphorodithioate .....	Hydrolysis.
Phosalone .....	213	97701	Phosphorodithioate .....	Hydrolysis.
Phosphamidon .....	214	18201	Phosphate .....	Hydrolysis.
Picloram .....	215	(*)	Pyridine .....	Activated Carbon.
Piperonyl Butoxide .....	216	67501	Ester .....	Activated Carbon.
PBED or WSCP (Busan 77) .....	217	69183	NR4 .....	Activated Carbon.
Busan 85 or Arylane .....	218	34803	Dithiocarbamate .....	Chemical Oxidation.
Busan 40 .....	219	102901	Dithiocarbamate .....	Chemical Oxidation.
KN Methyl .....	220	39002	Dithiocarbamate .....	Chemical Oxidation.
Metasol J26 .....	221	101301	Miscellaneous Organic .....	Activated Carbon.
Protenofos .....	222	111401	Phosphorothioate .....	Activated Carbon.
Prometon or Caparol .....	223	80804	s-Triazine .....	Chemical Oxidation.
Prometryn .....	224	80805	s-Triazine .....	Activated Carbon.
Propargite .....	225	97601	Miscellaneous Organic .....	Activated Carbon.
Propazine .....	226	80808	s-Triazine .....	Activated Carbon.
Propionic Acid .....	227	77702	Alkyl Acid .....	Activated Carbon.
Previcur N .....	228	119301	Carbamate .....	Hydrolysis.
Pyrethrin Coils .....	229	69004	Pyrethrin .....	Activated Carbon.
Pyrethrum I .....	230	69001	Pyrethrin .....	Hydrolysis.
Pyrethrum II .....	231	69002	Pyrethrin .....	Hydrolysis.
Pyrethrins .....	232	(*)	Pyrethrin .....	Hydrolysis.
Resmethrin .....	233	(*)	Pyrethrin .....	Activated Carbon.
Fenchlorphos or Ronnel .....	234	58301	Phosphorothioate .....	Hydrolysis.
Mexide or Rotenone .....	235	71003	Miscellaneous Organic .....	Activated Carbon.
DEF .....	236	74801	Phosphorotrithioate .....	Activated Carbon.
Siduron or Tupersan .....	237	35509	Urea .....	Activated Carbon.
Silvex .....	238	(*)	2,4-D .....	Activated Carbon.
Simazine .....	239	80807	s-Triazine .....	Activated Carbon.
Sodium Bentazon .....	240	103901	Heterocyclic .....	Chemical Oxidation.
Carbam-S or Sodam .....	241	34804	Dithiocarbamate .....	Chemical Oxidation.
Sodium Fluoroacetate .....	242	75003	Acetamide .....	Activated Carbon.
Vapam or Metham Sodium .....	243	39003	Dithiocarbamate .....	Chemical Oxidation.
Sulfoxide .....	244	57101	Miscellaneous Organic .....	Activated Carbon.
Cycloate or Ro-Neet .....	245	41301	Thiocarbamate .....	Activated Carbon.
EPrecipitationC or Eptam .....	246	41401	Thiocarbamate .....	Activated Carbon.
Molinate .....	247	41402	Thiocarbamate .....	Activated Carbon.
Pebulate or Tillman .....	248	41403	Thiocarbamate .....	Activated Carbon.
Vernolate or Vernam .....	249	41404	Thiocarbamate .....	Activated Carbon.
HPrecipitationMS .....	250	35604	Thiosulphonate .....	Activated Carbon.
Bensulide or Betesan .....	251	9801	Phosphorodithioate .....	Activated Carbon.
Tebuthiuron .....	252	105501	Urea .....	Activated Carbon.
Temephos .....	253	59001	Phosphorothioate .....	Hydrolysis.
Terbacil .....	254	12701	Uracil .....	Activated Carbon.
Terbufos or Counter .....	255	105001	Phosphorodithioate .....	Activated Carbon.
Terbutylazine .....	256	80814	s-Triazine .....	Activated Carbon.
Terbutryn .....	257	80813	s-Triazine .....	Activated Carbon.
Tetrachlorophenol .....	258	63004	Phenol .....	Activated Carbon.
Dazomet .....	259	35602	Heterocyclic .....	Chemical Oxidation.
Thiophanate Methyl .....	260	102001	Carbamate .....	Hydrolysis.
Thiram .....	261	79801	Dithiocarbamate .....	Activated Carbon.
Toxaphene .....	262	80501	Bicyclic .....	Activated Carbon.
Merphos .....	263	74901	Phosphorotrithioate .....	Hydrolysis.
Trifluralin or Trellan .....	264	36101	Toluidine .....	Activated Carbon.
Warfarin .....	265	(*)	Coumarin .....	Activated Carbon.
Zinc MBT .....	266	51705	Organozinc .....	Precipitation.
Zineb .....	267	14506	Dithiocarbamate .....	Activated Carbon.
Ziram .....	268	34805	Dithiocarbamate .....	Activated Carbon.
Triallate .....	269	78802	Thiocarbamate .....	Activated Carbon.
Phenothrin .....	270	69005	Pyrethrin .....	Activated Carbon.
Tetramethrin .....	271	69003	Pyrethrin .....	Activated Carbon.
Chloroprotham .....	272	18301	Carbamate .....	Hydrolysis.
<b>Non-272 PAIs</b>				
CFC 11 .....	.....	13	Alkyl Halide .....	Activated Carbon.
CFC 12 .....	.....	14	Alkyl Halide .....	Activated Carbon.
Polyethylene .....	.....	152	Polymer .....	Activated Carbon.
Acrolein .....	.....	701	Alcohol .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Dimethyl-m-dioxan-4-ol acetate .....	1001	Heterocyclic .....	Activated Carbon.	
Dodecyl alcohol .....	1509	Alcohol .....	Activated Carbon.	
Tetradecyl alcohol .....	1510	Alcohol .....	Activated Carbon.	
Rosin amine D acetate .....	4201	Alkyl Acid .....	Activated Carbon.	
Dihydroabietylamine acetate .....	4213	Alkyl Acid .....	Activated Carbon.	
Amitrole .....	4401	Heterocyclic .....	Activated Carbon.	
Allyl isothiocyanate .....	4901	Thiocyanate .....	Activated Carbon.	
AMS .....	5501	Inorganic .....	Pollution Prevention.	
Calcium sulfate .....	5602	Inorganic .....	Pollution Prevention.	
Tartar emetic .....	6201	Inorganic .....	Pollution Prevention.	
Diphenylstibene 2-ethylhexanoate. ....	6202	Aryl .....	Activated Carbon.	
Streptomycin .....	6306	Heterocyclic .....	Activated Carbon.	
Oxytetracycline hydrochloride .....	6308	Phthalamide .....	Activated Carbon.	
Streptomycin sesquisulfate .....	6310	Heterocyclic .....	Activated Carbon.	
Neomycin sulfate .....	6313	Benzeneamine .....	Activated Carbon.	
Antimycin A .....	6314	Heterocyclic .....	Activated Carbon.	
Calcium oxytetracycline .....	6321	Phthalamide .....	Activated Carbon.	
Espesol 3A .....	6601	Phosphorothioate .....	Activated Carbon.	
Arsenic acid .....	6801	Metallic .....	Precipitation.	
Arsenic acid anhydride .....	6802	Metallic .....	Precipitation.	
Arsenous acid anhydride .....	7001	Metallic .....	Precipitation.	
Copper oxychloride .....	8001	Metallic .....	Precipitation.	
Basic cupric sulfate .....	8101	Metallic .....	Precipitation.	
Basic copper III—zinc sulfate complex (Declare copper and. ....	8102	Metallic .....	Precipitation.	
Bromophos .....	8706	Phosphorothioate .....	Activated Carbon.	
Benzyl bromoacetate .....	8710	Benzoic acid .....	Activated Carbon.	
Benzoic acid .....	9101	Benzoic acid .....	Activated Carbon.	
Benzyl diethyl ((2,6-xylylcarbamoyl)methyl) ammonium benzoate. ....	9106	NR4 .....	Activated Carbon.	
Benzyl alcohol .....	9502	Aryl .....	Activated Carbon.	
3-Chloro-p-toluidine hydrochloride. ....	9901	Chloropropionanilide .....	Activated Carbon.	
Butoxyethoxy)ethyl thiocyanate .....	10002	Thiocyanate .....	Activated Carbon.	
2-Naphthol .....	10301	Phenol .....	Activated Carbon.	
Boric acid .....	11001	Inorganic .....	Pollution Prevention.	
Barium metaborate .....	11101	Inorganic .....	Pollution Prevention.	
Boron sodium oxide (B8Na2O13), tetrahydrate (12280—03—4). ....	11103	Inorganic .....	Pollution Prevention.	
Sodium metaborate (NaBO2) ...	11104	Inorganic .....	Pollution Prevention.	
Boron sodium oxide (B8Na2O13) (12008—41—2). ....	11107	Inorganic .....	Pollution Prevention.	
Boron sodium oxide (B4Na2O7), pentahydrate (12179—04—3). ....	11110	Inorganic .....	Pollution Prevention.	
Boron sodium oxide (B4Na2O7) (1330—43—4). ....	11112	Inorganic .....	Pollution Prevention.	
Polybutene .....	11402	Polymer .....	Activated Carbon.	
Polyisobutylene .....	11403	Polymer .....	Activated Carbon.	
Butyl cellosolve .....	11501	Alcohol .....	Activated Carbon.	
Butoxypolypropylene glycol .....	11901	Polymer .....	Activated Carbon.	
Neburon (ANSI) .....	12001	Chloropropionanilide .....	Activated Carbon.	
Methyltrimethylenedioxy)bis(4-methyl-1,3,2-dioxaborinane). ....	12401	Bicyclic .....	Activated Carbon.	
Oxybis(4,4,6-trimethyl-1,3,2-dioxaborinane). ....	12402	Bicyclic .....	Activated Carbon.	
Cadmium chloride .....	12902	Metallic .....	Precipitation.	
Lead arsenate, basic .....	13502	Metallic .....	Precipitation.	
Lead arsenate .....	13503	Metallic .....	Precipitation.	
Sodium arsenate .....	13505	Metallic .....	Precipitation.	
Sodium arsenite .....	13603	Metallic .....	Precipitation.	
Potassium bromide .....	13903	Inorganic .....	Pollution Prevention.	
Camphor .....	15602	Bicyclic .....	Activated Carbon.	
Carbon disulfide .....	16401	Inorganic .....	Pollution Prevention.	
Carbon tetrachloride .....	16501	Alkyl Halide .....	Activated Carbon.	
Barban (ANSI) .....	17601	Carbamate .....	Activated Carbon.	
Chloro-2-propenyl)-3,5,7,triala-1-azo niatricyclo(3.3.1.1)sup. ....	17902	Tricyclic .....	Activated Carbon.	

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TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Chloromequat chloride .....	.....	18101	NR4 .....	Activated Carbon.
Chloromethoxypropylmercuric acetate. ....	.....	18401	Metallic .....	Precipitation.
Allidochlor .....	.....	19301	Acetanilide .....	Activated Carbon.
Chromic acid .....	.....	21101	Metallic .....	Precipitation.
Chromic oxide .....	.....	21103	Metallic .....	Precipitation.
Cresol (unspec) (Cresylic acid) .....	.....	22101	Phenol .....	Activated Carbon.
Cresol .....	.....	22102	Phenol .....	Activated Carbon.
Copper (metallic) .....	.....	22501	Metallic .....	Precipitation.
Copper ammonium carbonate ..	.....	22703	Metallic .....	Precipitation.
Copper carbonate .....	.....	22901	Metallic .....	Precipitation.
Copper hydroxide .....	.....	23401	Metallic .....	Precipitation.
Copper chloride hydroxide (Cu <sub>2</sub> Cl(OH) <sub>3</sub> ). ....	.....	23501	Metallic .....	Precipitation.
Copper oxychloride sulfate .....	.....	23503	Metallic .....	Precipitation.
Copper sulfate .....	.....	24401	Metallic .....	Precipitation.
Copper (from triethanolamine complex). ....	.....	24403	Metallic .....	Precipitation.
Copper as metallic (in the form of chelates of copper citrat). ....	.....	24405	Metallic .....	Precipitation.
Copper as elemental from copper—ethylenediamine complex. ....	.....	24407	Metallic .....	Precipitation.
Copper sulfate (anhydrous) .....	.....	24408	Metallic .....	Precipitation.
Copper(I) oxide .....	.....	25601	Metallic .....	Precipitation.
Cuprous thiocyanate .....	.....	25602	Metallic .....	Precipitation.
Cyclohexane .....	.....	25901	Aryl .....	Activated Carbon.
Cyclohexanone .....	.....	25902	Cyclic Ketone .....	Activated Carbon.
Dichlobenil .....	.....	27401	Chloropropionanilide .....	Activated Carbon.
Diquat dibromide .....	.....	32201	NR4 .....	Activated Carbon.
Dimethrin (ANSI) .....	.....	34101	Pyrethrin .....	Activated Carbon.
Dicapthon .....	.....	34502	Phosphorothioate .....	Activated Carbon.
Ziram, cyclohexylamine complex. ....	.....	34806	Dithiocarbamate .....	Activated Carbon.
Butyl dimethyltrithioperoxycarbamate. ....	.....	34807	Dithiocarbamate .....	Activated Carbon.
Daminozide .....	.....	35101	Acetanilide .....	Activated Carbon.
Bis(trichloromethyl) sulfone .....	.....	35601	Miscellaneous Organic .....	Activated Carbon.
Bis(bromoacetoxy)-2-butene ....	.....	35605	Alkyl Halide .....	Activated Carbon.
Dazomet, sodium salt .....	.....	35607	Heterocyclic .....	Activated Carbon.
Butonate .....	.....	35701	Phosphonate .....	Activated Carbon.
Trifluoro-4-nitro-m-cresol(**)=alpha.alpha.alpha. ....	.....	6201	Phenol .....	Activated Carbon.
Triethanolamine dinoseb (2-sec-Butyl-4,6-dinitrophenol). ....	.....	37506	Phenol .....	Activated Carbon.
Sodium 4,6-dinitro-o-cresylate ..	.....	37508	Phenol .....	Activated Carbon.
Dinitrophenol .....	.....	37509	Phenol .....	Activated Carbon.
Alkanol* amine dinoseb (2-sec-butyl-4,6-dinitrophenol) *(s. ....	.....	37511	Phenol .....	Activated Carbon.
Sodium dinoseb (2-sec-Butyl-4,6-dinitrophenol). ....	.....	37512	Phenol .....	Activated Carbon.
Nitrilotriacetic acid, trisodium salt. ....	.....	39106	Acetamide .....	Activated Carbon.
Trisodium(2-hydroxy-ethyl)ethylene diaminetriacetate. ....	.....	39109	Acetanilide .....	Activated Carbon.
Ammonium ethylenediamine-tetraacetate. ....	.....	39117	Acetamide .....	Activated Carbon.
Pentasodium diethylenetriaminepentaacetate. ....	.....	39120	Acetanilide .....	Activated Carbon.
Ethyl-1,3-hexanediol .....	.....	41001	Alcohol .....	Activated Carbon.
Ethylene .....	.....	41901	Miscellaneous Organic .....	Pollution Prevention.
EDC .....	.....	42003	EDB .....	Activated Carbon.
Methylene chloride .....	.....	42004	Alkyl Halide .....	Activated Carbon.
Methoxyethanol .....	.....	42202	Alcohol .....	Activated Carbon.
Ethylene glycol .....	.....	42203	Alcohol .....	Activated Carbon.
Butylene glycol .....	.....	42205	Alcohol .....	Activated Carbon.
Ethylene oxide .....	.....	42301	Miscellaneous Organic .....	Pollution Prevention.
Copper(II) oxide .....	.....	42401	Metallic .....	Precipitation.



TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Cuprous and cupric oxide, mixed.	.....	42403	Metallic .....	Precipitation.
Propylene oxide .....	.....	42501	Miscellaneous Organic .....	Pollution Prevention.
Formaldehyde .....	.....	43001	Miscellaneous Organic .....	Pollution Prevention.
Paraformaldehyde .....	.....	43002	Polymer .....	Activated Carbon.
Bis(2-butylene) tetrahydro-2-furaldehyde.	.....	43302	Tricyclic .....	Activated Carbon.
Giberellic acid .....	.....	43801	Tricyclic .....	Activated Carbon.
Potassium gibberellate .....	.....	43802	Tricyclic .....	Activated Carbon.
Glutaral .....	.....	43901	Alcohol .....	Activated Carbon.
Copper citrate .....	.....	44005	Metallic .....	Precipitation.
Methyl nonyl ketone .....	.....	44102	Miscellaneous Organic .....	Activated Carbon.
Methyl-2-pentanone .....	.....	44105	Miscellaneous Organic .....	Activated Carbon.
Monosodium 2,2'-methylenebis (3,4,6-trichlorophenate).	.....	44902	Chlorophene .....	Activated Carbon.
Potassium 2,2'-methylenebis (3,4,6-trichlorophenate).	.....	44904	Chlorophene .....	Activated Carbon.
Hexachloroepoxyoctahydroendo, exo-dimethanophthalene 85%.	.....	45001	Tricyclic .....	Activated Carbon.
Chlorhexidine diacetate .....	.....	45502	Chloropropionanilide .....	Activated Carbon.
Hydrocyanic acid .....	.....	45801	Inorganic .....	Activated Carbon.
Hydroxyethyl octyl sulfide .....	.....	46301	Alcohol .....	Activated Carbon.
Heptadecenyl-2-(2-hydroxyethyl)-2-i midazolinium chloride.	.....	46608	NR4 .....	Activated Carbon.
Hydroxyethyl-2-alkyl-2-imidazoline (as in fatty acids of t.	.....	46609	NR4 .....	Activated Carbon.
IBA .....	.....	46701	Bicyclic .....	Activated Carbon.
Dihydropyrene .....	.....	46801	Cyclic ketone .....	Activated Carbon.
Butoxypolypropoxypolyethoxyethanol-iodine complex.	.....	46901	Polymer .....	Activated Carbon.
Polyethoxypolypropoxyethanol-iodine complex.	.....	46904	Polymer .....	Activated Carbon.
Use code no. 046904 (polyethoxypolypropoxy ethanol-iodine complex).	.....	46909	Polymer .....	Activated Carbon.
Iodine-potassium iodide complex.	.....	46917	Inorganic .....	Pollution Prevention.
Alkyl-omega-hydroxypoly(oxyethylen e)-iodine complex *(100%.	.....	46921	Polymer .....	Activated Carbon.
Lead acetate .....	.....	48001	Metallic .....	Precipitation.
Nickel sulfate hexahydrate .....	.....	50505	Metallic .....	Precipitation.
Maleic hydrazide, diethanolamine salt.	.....	51502	Hydrazide .....	Activated Carbon.
Maleic hydrazide, potassium salt.	.....	51503	Hydrazide .....	Activated Carbon.
Sodium 2-mercaptobenzothiolate.	.....	51704	Heterocyclic .....	Activated Carbon.
Mercuric chloride .....	.....	52001	Metallic .....	Precipitation.
Mercurous chloride .....	.....	52201	Metallic .....	Precipitation.
Metalddehyde .....	.....	53001	Miscellaneous Organic .....	Activated Carbon.
Methylated naphthalenes .....	.....	54002	Aryl .....	Activated Carbon.
Sodium 2,2'-methylenebis(4-chlorophenate).	.....	55005	Chlorophene .....	Activated Carbon.
Naphthalene .....	.....	55801	Aryl .....	Activated Carbon.
NAD .....	.....	56001	Benzoic Acid .....	Activated Carbon.
NAA (1-Naphthaleneacetic Acid).	.....	56002	Benzoic Acid .....	Activated Carbon.
Potassium 1-naphthaleneacetate.	.....	56003	Benzoic Acid .....	Activated Carbon.
Ammonium 1-naphthaleneacetate.	.....	56004	Benzoic Acid .....	Activated Carbon.
Sodium 1-naphthaleneacetate ..	.....	56007	Benzoic Acid .....	Activated Carbon.
Ethyl 1-naphthaleneacetate .....	.....	56008	Benzoic Acid .....	Activated Carbon.
Nitrophenol .....	.....	56301	Phenol .....	Activated Carbon.
Nicotine .....	.....	56702	Pyridine .....	Activated Carbon.
Carbophenothion (ANSI) .....	.....	58102	Phosphorodithioate .....	Activated Carbon.
Sodium 5-chloro-2-(4-chloro-2-(3-(3,4-dichlorophenyl)ureido).	.....	58802	Aryl Halide .....	Activated Carbon.

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TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES <sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Monocrotophos .....		58901	Phosphate .....	Activated Carbon.
Chlordimeform .....		59701	Chloropropionanilide .....	Activated Carbon.
Chlordimeform hydrochloride ....		59702	Chloropropionanilide .....	Activated Carbon.
Thiabendazole hypophosphite ..		60102	Hydrazide .....	Activated Carbon.
Hexachlorobenzene .....		61001	Lindane .....	Activated Carbon.
Butyl paraben .....		61205	Phenol .....	Activated Carbon.
Paraquat dichloride .....		61601	Pyridine .....	Activated Carbon.
Chloro-4-phenylphenol .....		62206	Chlorophene .....	Activated Carbon.
Chloro-2-phenylphenol .....		62208	Chlorophene .....	Activated Carbon.
Chloro-2-biphenylol, potassium salt.		62209	Chlorophene .....	Activated Carbon.
Chloro-2-phenylphenol .....		62210	Chlorophene .....	Activated Carbon.
Chloro-2-phenylphenol, potassium salt.		62211	Chlorophene .....	Activated Carbon.
Sodium phenate .....		64002	Phenol .....	Activated Carbon.
Butylphenol, sodium salt .....		64115	Phenol .....	Activated Carbon.
Ammonium 2-phenylphenate ....		64116	Phenol .....	Activated Carbon.
Chloro-2-cyclopentylphenol .....		64202	Chlorophene .....	Activated Carbon.
Bithionolate sodium .....		64203	Chlorophene .....	Activated Carbon.
Chloro-3-cresol .....		64206	Chlorophene .....	Activated Carbon.
Sodium 2,4,5-trichlorophenate ..		64217	Chlorophene .....	Activated Carbon.
Aluminum phosphide .....		66501	Inorganic .....	Pollution Prevention.
Phosphorus .....		66502	Inorganic .....	Pollution Prevention.
Magnesium phosphide .....		66504	Inorganic .....	Pollution Prevention.
1-(Alkyl*amino)-3-aminopropane* (Fatty acids of coconut oil).		67301	Iminamide .....	Activated Carbon.
Alkyl* amino)-3-aminopropane *(53%C12, 19%C14, 8.5%C16, 7%C8.		67305	Iminamide .....	Activated Carbon.
Alkyl*amino)-3-aminopropane benzoate*(fatty acids of coconut.		67307	Iminamide .....	Activated Carbon.
Alkyl* dipropoxyamine *(47% C12, 18% C14, 10% C18, 9% C10, 8.		67308	Iminamide .....	Activated Carbon.
Alkyl*amino)-3-aminopropane hydroxyacetate* (acids of coconut.		67309	Iminamide .....	Activated Carbon.
Alkyl* amino)-3-aminopropane *(42%C12, 26%C18, 15%C14, 8%C16.		67310	Iminamide .....	Activated Carbon.
Alkyl*amino)-3-aminopropane diacetate* (fatty acids of coconut.		67313	Iminamide .....	Activated Carbon.
Octadecenyl-1,3-propanediamine monogluconate.		67316	Acetamide .....	Activated Carbon.
Alkyl* amine acetate *(5%C8, 7%C10, 54%C12, 19%C14, 8%C16.		67329	Iminamide .....	Activated Carbon.
Pindone sodium salt .....		67704	Indandione .....	Activated Carbon.
Diphacinone, sodium salt .....		67705	Indandione .....	Activated Carbon.
Isovaleryl-1,3-indandione, calcium salt.		67706	Indandione .....	Activated Carbon.
Methyl isothiocyanate .....		68103	Thiocyanate .....	Pollution Prevention.
Potassium dichromate .....		68302	Inorganic .....	Pollution Prevention.
Sodium chromate .....		68303	Inorganic .....	Pollution Prevention.
Sodium dichromate .....		68304	Metallic .....	Precipitation.
Alkenyl* dimethyl ethyl ammonium bromide *(90%C18, 10%C16).		69102	NR4 .....	Activated Carbon.
Alkyl*-N-ethyl morpholinium ethyl sulfate *(92%C18, 8%C16).		69113	Heterocyclic .....	Activated Carbon.
Alkyl* isoquinolinium bromide *(50% C12, 30% C14, 17% C16, 3).		69115	Quinolin .....	Activated Carbon.
Alkyl* methyl isoquinolinium chloride *(55%C14, 12%C12, 17%C).		69116	Quinolin .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Cetyl trimethyl ammonium bromide.	.....	69117	NR4 .....	Activated Carbon.
Cetyl pyridinium bromide .....	.....	69118	Pyridine .....	Activated Carbon.
Dodecyl dimethyl benzyl ammonium naphthenate.	.....	69127	NR4 .....	Activated Carbon.
Alkyl* dimethyl ethylbenzyl ammonium cyclohexylsulfamate *(5).	.....	69135	NR4 .....	Activated Carbon.
Alkyl*-N-ethyl morpholinium ethyl sulfate *(66%C18, 25%C16).	.....	69147	Heterocyclic .....	Activated Carbon.
Alkyl* trimethyl ammonium bromide *(95%C14, 5%C16).	.....	69153	NR4 .....	Activated Carbon.
Benzyl((dodecylcarbamoyl methyl)di methyl ammonium chloride.	.....	69159	NR4 .....	Activated Carbon.
Cetyl pyridinium chloride .....	.....	69160	Pyridine .....	Activated Carbon.
Alkyl* dimethyl ethyl ammonium bromide *(85%C16, 15%C18).	.....	69186	NR4 .....	Activated Carbon.
Cetyl-N-ethylmorpholinium ethyl sulfate.	.....	69187	Heterocyclic .....	Activated Carbon.
Use code no. 069102 (Alkenyl* Dimethyl Ethyl Ammonium bromide).	.....	69198	NR4 .....	Activated Carbon.
p-Aminopyridine .....	.....	69201	Pyridine .....	Activated Carbon.
Nitrapyrin (ANSI) .....	.....	69203	Pyridine .....	Activated Carbon.
Alkyl pyridines .....	.....	69205	Pyridine .....	Activated Carbon.
Pyrazon (ANSI) .....	.....	69601	Heterocyclic .....	Activated Carbon.
Capsaicin (in oleoresin of capscicum).	.....	70701	Phenol .....	Activated Carbon.
Ryanodine .....	.....	71502	Tricyclic .....	Activated Carbon.
Silver .....	.....	72501	Inorganic .....	Pollution Prevention.
Silver chloride .....	.....	72506	Inorganic .....	Pollution Prevention.
Silver thiuronium acrylate copolymer.	.....	72701	Polymer .....	Activated Carbon.
Sodium chlorate .....	.....	73301	Inorganic .....	Pollution Prevention.
Calcium cyanide .....	.....	74001	Inorganic .....	Pollution Prevention.
Sodium cyanide .....	.....	74002	Inorganic .....	Pollution Prevention.
Cryolite .....	.....	75101	Inorganic .....	Pollution Prevention.
Sodium fluoride .....	.....	75202	Inorganic .....	Pollution Prevention.
Ammonium fluosilicate .....	.....	75301	Inorganic .....	Pollution Prevention.
Sodium fluosilicate .....	.....	75306	Inorganic .....	Pollution Prevention.
Potassium iodide .....	.....	75701	Inorganic .....	Pollution Prevention.
Potassium tetrathionate .....	.....	75903	Inorganic .....	Pollution Prevention.
Potassium nitrate .....	.....	76103	Inorganic .....	Pollution Prevention.
Sodium nitrate .....	.....	76104	Inorganic .....	Pollution Prevention.
Sodium nitrite .....	.....	76204	Inorganic .....	Pollution Prevention.
Benzenesulfonamide, N-chloro-, sodium salt.	.....	76501	Sulfonamide .....	Activated Carbon.
Salicylic acid .....	.....	76202	Benzoic Acid .....	Activated Carbon.
Ethoxyethyl p-methoxycinnamate.	.....	76604	Aryl .....	Activated Carbon.
Calcium polysulfide .....	.....	76702	Polymer .....	Activated Carbon.
Strychnine .....	.....	76901	Tricyclic .....	Activated Carbon.
Strychnine sulfate .....	.....	76902	Tricyclic .....	Activated Carbon.
Niclosamide .....	.....	77401	Chlorobenzamide .....	Activated Carbon.
Dibromosalicylamide .....	.....	77402	Chlorobenzamide .....	Activated Carbon.
Tribromsalan .....	.....	77404	Chlorobenzamide .....	Activated Carbon.
Dibromosalicylanilide .....	.....	77405	Chlorobenzamide .....	Activated Carbon.
Chlorosalicylanilide .....	.....	77406	Chlorobenzamide .....	Activated Carbon.
Sulfur .....	.....	77501	Inorganic .....	Pollution Prevention.
Sulfaquinoxaline .....	.....	77901	Sulfanilamide .....	Activated Carbon.
Sulfacetamide .....	.....	77904	Sulfanilamide .....	Activated Carbon.
Sulfuryl fluoride .....	.....	78003	Inorganic .....	Pollution Prevention.
Sodium bisulfite .....	.....	78201	Inorganic .....	Pollution Prevention.
Tetrachloroethylene .....	.....	78501	EDB .....	Activated Carbon.
Ethoxylated isooctylphenol .....	.....	79004	Phenol .....	Activated Carbon.
Lauric diethanolamide .....	.....	79018	Acetanilide .....	Activated Carbon.
Triethanolamine oleate .....	.....	79025	NR4 .....	Activated Carbon.
Diocetyl sodium sulfosuccinate ...	.....	79027	Thiosulfonate .....	Activated Carbon.
Use code no. 069179 (alkyl* mono-ethanolamide).	.....	79036	Miscellaneous Organic .....	Activated Carbon.

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TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Alkyl* diethanolamide *(70%C12, 30%C14).	.....	79045	Miscellaneous Organic .....	Activated Carbon.
Tetradecyl formate .....	.....	79069	Alkyl Acid .....	Activated Carbon.
Polyoxyethylene sorbitol oleate- laurate.	.....	79075	Polymer .....	Activated Carbon.
Polyethoxylated stearylamine ...	.....	79094	Polymer .....	Activated Carbon.
Capric diethanolamide .....	.....	79099	Acetanilide .....	Activated Carbon.
Calcium thiosulfate .....	.....	80101	Inorganic .....	Pollution Prevention.
Ammonium thiosulfate .....	.....	80103	Inorganic .....	Pollution Prevention.
Thymoxydichloroacetic acid .....	.....	80401	Benzoic Acid .....	Activated Carbon.
Thymol .....	.....	80402	Phenol .....	Activated Carbon.
Sodium trichloroacetate .....	.....	81001	Alkyl Halide .....	Activated Carbon.
Trichloroacetic acid .....	.....	81002	Alkyl Halide .....	Activated Carbon.
Hexahydro-1,3,5-tris(2-hydroxy- ethyl)-s-triazine.	.....	83301	s-Triazine .....	Activated Carbon.
2-(Hydroxymethyl)-2-nitro-1,3- propanediol.	.....	83902	Alcohol .....	Activated Carbon.
Bomyl .....	.....	84201	Phosphate .....	Activated Carbon.
Turpentine .....	.....	84501	Miscellaneous Organic .....	Activated Carbon.
Chloro-1-(2,5-dichlorophen- yl)vinyl) O,O-diethyl phosphorothi.	.....	84901	Phosphorothioate .....	Activated Carbon.
Zinc chloride .....	.....	87801	Metallic .....	Precipitation.
Zinc 2-pyridinethiol-1-oxide .....	.....	88002	Metallic .....	Precipitation.
Hydroxy-2-(1H)-pyridinethione, sodium salt.	.....	88004	Pyridine .....	Activated Carbon.
Omadine TBAO .....	.....	88005	Pyridine .....	Activated Carbon.
Zinc naphthenate .....	.....	88301	Metallic .....	Precipitation.
Zinc oxide .....	.....	88502	Metallic .....	Precipitation.
Zinc phosphide (Zn3P2) .....	.....	88601	Metallic .....	Precipitation.
Zinc phenol sulfonate .....	.....	89002	Metallic .....	Precipitation.
Zinc sulfate, basic .....	.....	89101	Metallic .....	Precipitation.
Dimetilan .....	.....	90101	Carbamate .....	Activated Carbon.
Carboxin .....	.....	90201	Heterocyclic .....	Activated Carbon.
Oxycarboxin .....	.....	90202	Heterocyclic .....	Activated Carbon.
Benzocaine .....	.....	97001	Benzeneamine .....	Activated Carbon.
Piperalin .....	.....	97003	2,4-D .....	Activated Carbon.
Tetracaine hydrochloride .....	.....	97005	Benzeneamine .....	Activated Carbon.
Formetanate hydrochloride .....	.....	97301	Toluamide .....	Activated Carbon.
Azasterol HCl .....	.....	98101	Tricyclic .....	Activated Carbon.
Use code no. 039502 (gentian violet).	.....	98401	NR4 .....	Activated Carbon.
Ammonium alum .....	.....	98501	Inorganic .....	Pollution Prevention.
Bismuth subgallate .....	.....	98601	Metallic .....	Precipitation.
Chlorfluorene, methyl ester .....	.....	98801	Aryl Halide .....	Activated Carbon.
Benzisothiazolin-3-one .....	.....	98901	Heterocyclic .....	Activated Carbon.
Methyl 2- benzimidazolecarbamate phosphate.	.....	99102	Carbamate .....	Activated Carbon.
Ethephon .....	.....	99801	Phosphate .....	Activated Carbon.
Pentanethiol .....	.....	100701	Miscellaneous Organic .....	Activated Carbon.
Nitrobutyl)morpholine .....	.....	100801	Heterocyclic .....	Activated Carbon.
Ethyl-2-nitrotrimethyl- ene)dimorpholine.	.....	100802	Heterocyclic .....	Activated Carbon.
Tolyl diiodomethyl sulfone .....	.....	101002	Thiosulfonate .....	Activated Carbon.
Isobutyric acid .....	.....	101502	Alkyl Acid .....	Activated Carbon.
Dibromo-3-nitrilopropionamide ..	.....	101801	Acetamide .....	Activated Carbon.
Polyethoxylated oleylamine .....	.....	101901	Acetamide .....	Activated Carbon.
Dinitramine (ANSI) .....	.....	102301	Nitrobenzoate .....	Activated Carbon.
Phenylethyl propionate .....	.....	102601	Phenylcrotonate .....	Activated Carbon.
Eugenol .....	.....	102701	Phenol .....	Activated Carbon.
Tricosene .....	.....	103201	Miscellaneous Organic .....	Activated Carbon.
Tricosene .....	.....	103202	Miscellaneous Organic .....	Activated Carbon.
Sodium 1,4',5'-trichloro-2'- (2,4,5- trichlorophenoxy)methanes.	.....	104101	2,4-D .....	Activated Carbon.
Hexahydro-1,3,5-tris(2- hydroxypropyl)-s-triazine.	.....	105601	s-Triazine .....	Activated Carbon.
Methazole .....	.....	106001	Hydrazide .....	Activated Carbon.
Difenoquat methyl sulfate .....	.....	106401	Hydrazide .....	Activated Carbon.
Butralin .....	.....	106501	Benzeneamine .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Fosamine ammonium .....	.....	106701	Carbamate .....	Activated Carbon.
Asulam .....	.....	106901	Carbamate .....	Activated Carbon.
Sodium asulam .....	.....	106902	Carbamate .....	Activated Carbon.
Hydroxymethoxymethyl-1-aza-3,7-dioxabicyclo(3.3.0)octane. ....	.....	107001	Bicyclic .....	Activated Carbon.
Hydroxymethyl-1-aza-3,7-dioxabicyclo(3.3.0)octane. ....	.....	107002	Bicyclic .....	Activated Carbon.
Hydroxypoly(methyleneoxy)* methyl-1-aza-3,7-dioxabicyclo(3.3.0)octane. ....	.....	107003	Bicyclic .....	Activated Carbon.
Chloro-2-methyl-3(2H)-isothiazolone. ....	.....	107103	Heterocyclic .....	Activated Carbon.
Methyl-3(2H)-isothiazolone .....	.....	107104	Heterocyclic .....	Activated Carbon.
Trimethoxysilylpropyl dimethyl octadecyl ammonium chloride. ....	.....	107401	NR4 .....	Activated Carbon.
Kinoprene .....	.....	107502	Ester .....	Activated Carbon.
Triforine (ANSI) .....	.....	107901	Hydrazide .....	Activated Carbon.
Pirimiphos-methyl (ANSI) .....	.....	108102	Phosphorothioate .....	Activated Carbon.
Thiobencarb .....	.....	108401	Thiocarbamate .....	Activated Carbon.
Ancymidol (ANSI) .....	.....	108601	Pyrimidine .....	Activated Carbon.
Oxadiazon (ANSI) .....	.....	109001	Hydrazide .....	Activated Carbon.
Mepiquat chloride .....	.....	109101	NR4 .....	Activated Carbon.
Fluvalinate .....	.....	109302	Toluamide .....	Activated Carbon.
Chloro-N-(hydroxymethyl)acetamide. ....	.....	109501	Acetamide .....	Activated Carbon.
Dikegulac sodium .....	.....	109601	Tricyclic .....	Activated Carbon.
Iprodione (ANSI) .....	.....	109801	Hydrazide .....	Activated Carbon.
Phenylmethyl-9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-amine. ....	.....	110001	Pyrimidine .....	Activated Carbon.
Prodiamine .....	.....	110201	Benzeneamine .....	Activated Carbon.
Erioglaucine .....	.....	110301	Benzeneamine .....	Activated Carbon.
Tartrazine .....	.....	110302	Hydrazide .....	Activated Carbon.
Dodemorph acetate .....	.....	110401	Heterocyclic .....	Activated Carbon.
Ethofumesate (ANSI) .....	.....	110601	Bicyclic .....	Activated Carbon.
Aldoxycarb (ANSI) .....	.....	110801	Carbamate .....	Activated Carbon.
Diclofop-methyl .....	.....	110902	Aryl Halide .....	Activated Carbon.
Bromo-1-(bromomethyl)-1,3-propanediCarbonitrile. ....	.....	111001	Isocyanate .....	Activated Carbon.
Poly (imino imidocarbonyl iminoimidocarbonyl iminohexameth ylene). ....	.....	111801	Polymer .....	Activated Carbon.
Imazalil .....	.....	111901	Aryl Halide .....	Activated Carbon.
Bromadiolone .....	.....	112001	Coumarin .....	Activated Carbon.
Brodifacoum .....	.....	112701	Coumarin .....	Activated Carbon.
Bromethalin (ANSI) .....	.....	112802	Aryl Amine .....	Activated Carbon.
Fluridone (ANSI) .....	.....	112900	Aryl Halide .....	Activated Carbon.
Vinclozolin .....	.....	113201	Aryl Halide .....	Activated Carbon.
Metalaxyl .....	.....	113501	Benzeneamine .....	Activated Carbon.
Propetamphos (ANSI) .....	.....	113601	Phosphoroamidothioate .....	Activated Carbon.
Methyl-1-naphthylmaleimide ....	.....	113701	Phthalamide .....	Activated Carbon.
Hexadecadien-1-yl acetate .....	.....	114101	Ester .....	Activated Carbon.
Hexadecadien-1-yl acetate .....	.....	114102	Ester .....	Activated Carbon.
Epoxy-2-methyloctadecane .....	.....	114301	Heterocyclic .....	Activated Carbon.
Thiodicarb (ANSI) .....	.....	114501	Thiocarbamate .....	Activated Carbon.
Dimethyloxazolidine (8CA & 9CA). ....	.....	114801	Heterocyclic .....	Activated Carbon.
Trimethyloxazolidine .....	.....	114802	Heterocyclic .....	Activated Carbon.
Hydroxyphenyl) oxoace tohydroximic chloride. ....	.....	114901	Phenol .....	Activated Carbon.
EEEBBC .....	.....	115001	Carbamate .....	Activated Carbon.
MDM Hydantoin .....	.....	115501	Hydrazide .....	Activated Carbon.
DMDM Hydantoin .....	.....	115502	Hydrazide .....	Activated Carbon.
Triclopyr (ANSI) .....	.....	116001	Pyridine .....	Activated Carbon.
Triethylamine triclopyr .....	.....	116002	Pyridine .....	Activated Carbon.
Butoxyethyl triclopyr .....	.....	116004	Pyridine .....	Activated Carbon.
Decenyl)dihydro-2(3H)-furanone .....	.....	116501	Ester .....	Activated Carbon.
Cytokinins .....	.....	116801	Toluidine .....	Activated Carbon.
Benzyladenine .....	.....	116901	Pyrimidine .....	Activated Carbon.
Clopyralid, monoethanolamine salt. ....	.....	117401	Pyridine .....	Activated Carbon.
Clopyralid (ANSI) .....	.....	117403	Pyridine .....	Activated Carbon.

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TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Flucythrinate (ANSI) .....		118301	Pyrethrin .....	Activated Carbon.
Hydramethylnon (ANSI) .....		118401	Iminide .....	Activated Carbon.
Chlorsulfuron .....		118601	s-Triazine .....	Activated Carbon.
Dimethipin .....		118901	Heterocyclic .....	Activated Carbon.
Hexadecenal .....		120001	Miscellaneous Organic .....	Activated Carbon.
Tetradecenal .....		120002	Miscellaneous Organic .....	Activated Carbon.
Thidiazuron .....		120301	Urea .....	Activated Carbon.
Metronidazole .....		120401	Hydrazide .....	Activated Carbon.
Erythrosine B .....		120901	Tricyclic .....	Activated Carbon.
Sethoxydim .....		121001	Cyclic Ketone .....	Activated Carbon.
Clethodim .....		121011	Heterocyclic .....	Activated Carbon.
Cyromazine .....		121301	s-Triazine .....	Activated Carbon.
Tralomehrin .....		121501	Pyrethrin .....	Activated Carbon.
Azadirachtin .....		121701	Tricyclic .....	Activated Carbon.
Tridecen-1-yl acetate .....		121901	Ester .....	Activated Carbon.
Tridecen-1-yl acetate .....		121902	Ester .....	Activated Carbon.
Sulfometuron methyl .....		122001	Pyrimidine .....	Activated Carbon.
Metsulfuron-methyl .....		122010	s-Triazine .....	Activated Carbon.
Propiconazole .....		122101	Aryl Halide .....	Activated Carbon.
Furanone, dihydro-5-pentyl .....		122301	Cyclic Ketone .....	Activated Carbon.
Furanone, 5-heptyldihydro- .....		122302	Cyclic Ketone .....	Activated Carbon.
Abamectin (ANSI) .....		122804	Tricyclic .....	Activated Carbon.
Fluazifop-butyl .....		122805	Pyridine .....	Activated Carbon.
Fluazifop-R-butyl .....		122809	Pyridine .....	Activated Carbon.
Flumetralin .....		123001	Nitrobenzoate .....	Activated Carbon.
Fosetyl-Al .....		123301	Phosphate .....	Activated Carbon.
Methanol, (((2-(dihydro-5-methyl-3(2H)-oxazolyl)-1-methyl)et. ....		123702	Heterocyclic .....	Activated Carbon.
Fomesafen .....		123802	Nitrobenzoate .....	Activated Carbon.
Tridiphane .....		123901	Aryl Halide .....	Activated Carbon.
POE isooctadecanol .....		124601	Alcohol .....	Activated Carbon.
Periplanone B .....		124801	Bicyclic .....	Activated Carbon.
Fenoxycarb .....		125301	Carbamate .....	Activated Carbon.
Clomazone .....		125401	Aryl Halide .....	Activated Carbon.
Clofentezine .....		125501	Aryl Halide .....	Activated Carbon.
Paclobutrazol .....		125601	Hydrazide .....	Activated Carbon.
Flurprimidol .....		125701	Pyrimidine .....	Activated Carbon.
Isoxaben .....		125851	Heterocyclic .....	Activated Carbon.
Isazofos .....		126901	Phosphorothioate .....	Activated Carbon.
Triadimenol .....		127201	Hydrazide .....	Activated Carbon.
Fenpropathrin .....		127901	Pyrethrin .....	Activated Carbon.
Sulfosate .....		128501	Phosphorothioate .....	Activated Carbon.
Fenoxaprop-ethyl .....		128701	Heterocyclic .....	Activated Carbon.
Quizalofop-ethyl .....		128711	Phthalimide .....	Activated Carbon.
Bensulfuron-methyl .....		128820	Pyrimidine .....	Activated Carbon.
Imazapyr .....		128821	Hydrazide .....	Activated Carbon.
Bifenthrin .....		128825	Pyrethrin .....	Activated Carbon.
Imazapyr, isopropylamine salt ..		128829	Hydrazide .....	Activated Carbon.
Sodium salt of 1-carboxymethyl-3,5,7-triaza-1-azoniatricyclo. ....		128832	s-Triazine .....	Activated Carbon.
Linalool .....		128838	Alcohol .....	Activated Carbon.
Imazaquin, monoammonium salt. ....		128840	Pyrimidine .....	Activated Carbon.
Imazethabenz .....		128842	Pyrimidine .....	Activated Carbon.
Thifensulfuron methyl .....		128845	s-Triazine .....	Activated Carbon.
Imazaquin .....		128848	Pyrimidine .....	Activated Carbon.
Myclobutanil (ANSI) .....		128857	s-Triazine .....	Activated Carbon.
Zinc borate (3ZnO, 2B <sub>2</sub> O <sub>3</sub> , 3.5H <sub>2</sub> O; mw 434.66). ....		128859	Metallic .....	Precipitation.
Cyhalothrin .....		128867	Pyrethrin .....	Activated Carbon.
Potassium cresylate .....		128870	Phenol .....	Activated Carbon.
Triflumizole .....		128879	Toluidine .....	Activated Carbon.
Tribenuron methyl .....		128887	s-Triazine .....	Activated Carbon.
Cyhalothrin .....		128897	Pyrethrin .....	Activated Carbon.
Chlorimuron-ethyl .....		128901	Pyrimidine .....	Activated Carbon.
Dodecen-1-yl acetate .....		128906	Ester .....	Activated Carbon.
Dodecen-1-yl acetate .....		128907	Ester .....	Activated Carbon.
DDOL .....		128908	Alcohol .....	Activated Carbon.
Farnesol .....		128910	Alcohol .....	Activated Carbon.
Nerolidol .....		128911	Alcohol .....	Activated Carbon.

TABLE 10 TO PART 455—LIST OF APPROPRIATE POLLUTION CONTROL TECHNOLOGIES<sup>1</sup>—Continued

PAI name <sup>2</sup>	PAI code <sup>3</sup>	Shaughnessy code <sup>4</sup>	Structural group <sup>5</sup>	Treatment technology
Tefluthrin .....	.....	128912	Pyrethrin .....	Activated Carbon.
Bromoxynil heptanoate .....	.....	128920	Chloropropionanilide .....	Activated Carbon.
Imazethapyr .....	.....	128922	Pyrimidine .....	Activated Carbon.
Imazethapyr, ammonium salt ....	.....	128923	Pyrimidine .....	Activated Carbon.
Chitosan .....	.....	128930	Polymer .....	Activated Carbon.
Sulfuric acid, monourea adduct .....	.....	128961	Urea .....	Activated Carbon.
Hydroprene .....	.....	128966	Miscellaneous Organic .....	Activated Carbon.
Triasulfuron .....	.....	128969	Urea .....	Activated Carbon.
Primisulfuron-methyl .....	.....	128973	Urea .....	Activated Carbon.
Uniconazole (ANSI) .....	.....	128976	s-Triazine .....	Activated Carbon.
Tetradecenyl acetate .....	.....	128980	Miscellaneous Organic .....	Activated Carbon.
Chitin .....	.....	128991	Polymer .....	Activated Carbon.
Sulfuramid .....	.....	128992	Sulfonamide .....	Activated Carbon.
Dithiopyr (ANSI) .....	.....	128994	Pyridine .....	Activated Carbon.
Nicosulfuron .....	.....	129008	Pyrimidine .....	Activated Carbon.
Zinc .....	.....	129015	Metallic .....	Precipitation.
Tetradecen-1-ol, acetate, (E)- ...	.....	129019	Alkyl Acid .....	Activated Carbon.
Imazaquin, sodium salt .....	.....	129023	Pyrimidine .....	Activated Carbon.
Dodecadien-1-ol .....	.....	129028	Alcohol .....	Activated Carbon.
Ionone .....	.....	129030	Miscellaneous Organic .....	Activated Carbon.
Dicamba, aluminum salt .....	.....	129042	Aryl Halide .....	Activated Carbon.
Benzenemethanaminium, N-(2- ((2,6-dimethylphenyl)amino)- 2-oxo. ....	.....	129045	NR4 .....	Activated Carbon.
Fenoxaprop-p-Ethyl .....	.....	129092	Tricyclic .....	Activated Carbon.
Alkyl* bis(2-hydroxyethyl) am- monium acetate *(as in fatty ac. ....	.....	169103	NR4 .....	Activated Carbon.
Alkenyl* dimethyl ammonium acetate *(75% C18*, 25% C16*). ....	.....	169104	NR4 .....	Activated Carbon.
Amines, N-coco alkyltrimethylenedi-, adipates. .....	.....	169109	Iminamide .....	Activated Carbon.
Dialkyl* dimethyl ammonium bentonite *(as in fatty acids of. .....	.....	169111	NR4 .....	Activated Carbon.
Alkyl* bis(2-hydroxyethyl) amine acetate *(65% C18, 30% C16,. ....	.....	169125	Acetamide .....	Activated Carbon.
Dodecyl bis(hydroxy ethyl) dioctyl ammonium phosphate. .....	.....	169154	NR4 .....	Activated Carbon.
Dodecyl bis(2-hydroxyethyl) octyl hydrogen ammonium phosphat. ....	.....	169155	NR4 .....	Activated Carbon.
Didecyl - N - methyl - 3 - (trimethoxysilyl) propanaminium chloride. ....	.....	169160	NR4 .....	Activated Carbon.
Cholecalciferol .....	.....	202901	Bicyclic .....	Activated Carbon.
Use code no. 202901 (Vitamin D3). ....	.....	208700	Bicyclic .....	Activated Carbon.
Alkyl* N,N-bis(2-hydroxy- ethyl)amine *(100% C8–C18). .....	.....	210900	NR4 .....	Activated Carbon.
Bromo-2-nitropropane-1,3-diol .. Use code no. 114601 .....	.....	216400	Alcohol .....	Activated Carbon.
(cyclohexyl-4, 5-dichloro- 4- isothiazolin-3-one). ....	.....	229300	Heterocyclic .....	Activated Carbon.
Diethyl ethyl .....	.....	279500	Toluidine .....	Activated Carbon.
Hydroprene (ANSI) .....	.....	486300	Miscellaneous Organic .....	Activated Carbon.
Zinc sulfate monohydrate .....	.....	527200	Metallic .....	Precipitation
Geraniol .....	.....	597501	Alcohol .....	Activated Carbon.

<sup>1</sup> The 272 Pesticide Active Ingredients (PAIs) are listed first, by PAI code, followed by the non-272 PAIs from the 1988 FIFRA and TSCA Enforcement System (FATES) Database, which are listed in Shaughnessy code order. PAIs that were exempted or reserved from the PFPR effluent guidelines are not listed in the table.

<sup>2</sup> The non-272 PAI names are taken directly from the 1988 FATES database. Several of the PAI names are truncated because the PAI names listed in the FATES database are limited to 60 characters.

<sup>3</sup> The non-272 PAIs do not have PAI codes.

<sup>4</sup> All Shaughnessy codes are taken from the 1988 FATES database. Some of the 272 PAIs are not listed in the 1988 FATES database; therefore, no Shaughnessy codes are listed for these PAIs.

<sup>5</sup> Structural groups are based on an analysis of the chemical structures of each PAI.

<sup>6</sup> EPA has also received data indicating that acid hydrolysis may also be effective in treating this PAI.

\*This PAI code represents a category or group of PAIs; therefore, it has multiple Shaughnessy codes.